

## author index

**Index of Issues:** January, pp 1-168; February, pp 169-312; March, pp 313-456; April, pp 457-616; May, pp 617-760; June, pp 761-928. Page numbers beginning with S denote articles in the June Pathology Patterns Reviews.

**A**

Ábel, György, S86  
 Abraham, Roshini S., 274  
 Abramovich, Caroline M., 123  
 Abrams, Jacki, 381  
 Actor, Jeffrey, 298  
 Adler, Brian K., 66  
 Akino, Fumiyuki, 723  
 Al-Abbadi, Mousa, 339  
 Alexander, Russell T., 740  
 Allasia, Claude, 374  
 Allen, James, 556  
 Andrac-Meyer, Lucile, 374  
 Arber, Daniel A., 672  
 Arumi-Uría, Montserrat, 587  
 Association of Directors of  
   Anatomic and Surgical  
   Pathology, 179, 185  
 Atkinson, Barbara F., 101

**B**

Bagg, Adam, S58  
 Barcos, Maurice P., 824  
 Bardales, Ricardo H., 703  
 Barnes, E. Leon, 90  
 Barranco, Carlos, 587  
 Baschinsky, Dmitry Y., 731  
 Bassols, Anna, 587  
 Bates, David W., 432  
 Batisse, Dominique, 546  
 Baur, Audrey Sylvia, 634  
 Bélair, Marie-France, 546  
 Benda, Peter M., 643  
 Benhattar, Jean, 634  
 Best, Catherine A., S94  
 Beylot, Claire, 414  
 Beylot-Barry, Marie, 414  
 Bhanot, Punam, 778  
 Biol, Dipl, 265  
 Birch, Nathan C., 516  
 Bonar, Roslyn, 882

Bonds, Lian A., 866  
 Bonnier, Pascal, 374  
 Borgoño, Carla A., 346  
 Bossuyt, Patrick M., 18  
 Bouros, Demos, 709  
 Bradwell, A.R., 274  
 Braunschweig, Richard, 634  
 Brazier, Rita M., 199  
 Bressi, Caterina, 241  
 Bricod, Charlotte, 634  
 Brown, Charlotte A., 568  
 Bruneval, Patrick, 546  
 Bruns, David E., 18  
 Buettner, Helmut, 594  
 Buhr, Thomas, 152  
 Burgart, Lawrence J., 361  
 Burstein, David E., 696  
 Büsche, Guntram, 152

**C**

Cartagena, Norberto, 797  
 Carter, Nora H., 672  
 Casal, J. Antonio, 684  
 Castilla, Elias A., 123  
 Chagla, Abdul H., 45  
 Chang, Anthony, 643  
 Chantarangkul, Veena, 241  
 Charpin, Colette, 374  
 Chauhan, Nikhil, 232  
 Chen, Karl T.K., 811  
 Chen, Philip, 432  
 Chen, Xinjian, 842  
 Chêne, Geneviève, 414  
 Chetty, Runjan, 816  
 Chhieng, David C., 367  
 Chiang, Hung, 715  
 Choi, Jong Sang, 356  
 Choppa, Paul C., 137  
 Choritz, Harald, 152  
 Chott, Andreas, 663  
 Christie, John D., 11

Clark, Raynell J., 274  
 Cluette-Brown, Joanne E., S94  
 Cohen, Mark L., 123  
 Cohen, Patti, 218  
 Cohn, David L., 866  
 Coleman, Nicholas, 540  
 Connolly, James L., 629  
 Cook, James R., 145  
 Cornford, Philip A., 392  
 Craig, Fiona E., 145  
 Crawford, Linda, 72  
 Crowson, A. Neil, 114, 731  
 Crowther, Mark, 72

**D**

Dales, Jean-Philippe, 374  
 Dasgupta, Amitava, 298  
 Datta, Pradip, 298  
 Davis, Gerald, 656  
 Dayal, Yogeshwar, 801  
 Delacretaz, Françoise, 634  
 Delaunay, Michèle, 414  
 Delgado, Yara, 254  
 de Mascarel, Antoine, 414  
 Devaraj, Sridevi, 439  
 de Vet, Henrica C.W., 18  
 Diamandis, Eleftherios P., 346  
 Dodson, Andrew, 392  
 Dong, Henry Y., 218  
 Dorfman, David M., 424  
 Druker, Brian J., 833  
 du Bois, Roland M., 709  
 Dubus, Pierre, 414  
 Duffaud, Florence, 374  
 Dumler, J. Stephen, 859  
 Duong Van Huyen, Jean-Paul, 546

**E**

Eiland, Barbara M., 66  
 Elgert, Paul A., 367

Evans, James D., 392  
 Evans, Timothy W., 709

**F**

Fan, Guang, 199  
 Faquin, William C., 801  
 Favalaro, Emmanuel J., 882  
 Fennelly, D., 108  
 Ferrer, Jacky, 414  
 Fine, Samson W., 259  
 Finn, William G., 192, 656  
 Fisher, Cyril, 540  
 Fiskio, Julie, 432  
 Fletcher, Christopher D.M., 325, 629  
 Flieder, Douglas B., S39  
 Foran, Stacy E., S86  
 Forman, Stephen J., 672  
 Foster, Christopher S., 392  
 Fracchioli, Stefano, 346  
 Frater, John L., 833  
 Fritsma, George A., 66

**G**

Gadner, Helmut, 663  
 Gaido, Loretta, 866  
 Gan, Li, 696  
 Garcia, Stephane, 374  
 Gatsonis, Constantine A., 18  
 Gertz, Morie A., 274  
 Ghannadan, Minoo, 663  
 Gil, Joan, 696  
 Ginsburg, Geoffrey S., 26  
 Glasziou, Paul P., 18  
 Goldsmith, Jeffrey D., S3  
 Goldstein, Neal S., 778  
 Gomez, Jamie, 137  
 Gonzalez-Canali, Gustavo, 546  
 Gorczyca, Wojciech, 218  
 Gordop, Steven M., 749

Gould, Edwin W., 797  
 Graf, Laurie L., 52  
 Granter, Scott R., 797  
 Gray, Gary S., 472  
 Gray, Karen, 472  
 Gregson, Daniel B., 45  
 Guilfoyle, Dennis, 95  
 Gulbahce, H. Evin, 568  
 Gupta, Deepali, 381

## H

Hamre, Merlin R., 339  
 Han, Jong Ho, 356  
 Han, Xiang Y., 38, 854  
 Hansell, David M., 709  
 Harris, R. Jayne, 656  
 Hauswirth, Alexander W., 663  
 Henry, John Bernard, 330  
 Herrmann, Marille, 517  
 Hertzberg, Mark, 882  
 Hill, Harry R., 508  
 Hinrichs, Steven H., 292, 516  
 Hirany, Shaina V., 439  
 Hirshfield, Irvin, 95  
 Ho, Donald Ming-Tak, 715  
 Holden, Jeannine T., 205  
 Hornick, Jason L., 325  
 Horny, Hans-Peter, 663  
 Hrisinko, Mary Ann, 833  
 Hsu, Chih-Yi, 715  
 Hu, Yuan, 95  
 Hudson, Christine L., 66  
 Hummel Levine, Pascale, 254  
 Humphrey, Peter A., 80  
 Hunt, Jennifer L., 90  
 Hunter, Susan, 778  
 Hussain, Zafar, 45  
 Hyland, J.M.P., 108

## I

Ikle, David, 672  
 Imus, Paula D., 213  
 Irwig, Les M., 18  
 Isada, Carlos M., 749  
 Iskander, Lisa, 346  
 Iwen, Peter C., 292

## J

Jacobsen, Anja, 265  
 Jass, Jeremy R., 773  
 Jensen, Peter E., 842  
 Jespersen, Jorgen, 232  
 Jessurun, Jose, 568, 807  
 Jhala, Darshana N., 101  
 Jhala, Nirag C., 101  
 Jialal, Ishwarlal, 439  
 Jian, Raymond, 546  
 Jiroutek, Michael R., 388

John, Michael A., 45  
 Juco, Jonathan, 205

## K

Kakar, Sanjay, 361  
 Kampalath, Bal, 824  
 Katsaros, Dionyssios, 346  
 Katzmann, Jerry A., 274  
 Kazatchkine, Michel D., 546  
 Kelley, Lloyd G., 205  
 Kelley, Todd W., 749  
 Kellner, Angela, 265  
 Kellner, Udo, 265  
 Kelly, Karen C., 330  
 Keown, Michelle, 232  
 Kerr, Jonathan R., 709  
 Kim, Han Kyeom, 356  
 Kim, In Sun, 356  
 Kingma, Douglas W., 213  
 Kitzmann, Anna S., 594  
 Klemm, Katrin, 101  
 Kontoyiannis, Dimitrios P., 38, 854  
 Kotylo, Patricia, 199  
 Kovatch, Al, 731  
 Kreipe, Hans, 152  
 Kreitman, Robert J., 213  
 Krishnamurthy, Savitri, 248  
 Kroft, Steven H., 130  
 Kruskall, Margot S., 874  
 Kuperman, Gilad J., 432  
 Kussick, Steven J., 643  
 Kutscher, Patricia, 439  
 Kyle, Robert A., 274

## L

Lafferty, John D., 72  
 Lai, Rebecca, 703  
 Landau, Alain, 546  
 Landmark, James D., 292  
 Langel, Desire, 807  
 Länger, Florian, 152  
 Lantis, Kay L., 656  
 Laposata, Michael, 61, 497, S94  
 Lavaut, Marie-Noëlle, 374  
 Lay, Marla J., 490  
 Lechner, Klaus, 663  
 Lee, Eung Seok, 356  
 Lee, Ming S., 38  
 Lee, Mi Sook, 356  
 Lennon, A.M., 108  
 Leong, Anthony S-Y, 356  
 Li, Maomi, 259  
 Li, Shiyong, 205, 842  
 Lichterfeld, Mathias, 854  
 Lijmer, Jeroen G., 18  
 Lim, Sung C., 248  
 Linkins, Lori Anne, 72  
 Linzie, Bradley M., 703  
 Litwin, Christine M., 508

Liu, Zach, 218  
 Lloyd, John, 882  
 Lloyd, Ricardo V., 361  
 Lohse, Christine M., 594  
 Lopategui, Jean R., 137  
 Lopes, Marcio A., 574  
 Love, Karl, 540  
 Lowry, C., 108  
 Lucas, David R., 339  
 Luna, Mario, 854

## M

Magro, Cynthia M., 114, 279, 556, 731  
 Malan, Annette K., 508  
 Mallery, Shawn, 703  
 Mann, Karen P., 205  
 Mannucci, Pier Mannuccio, 241  
 Mantke, René, 265  
 Marlar, Richard A., 52  
 Marques, Marisa B., 66  
 Marsden, Katherine, 882  
 Martins, Thomas B., 508  
 Massey, Viki, 45  
 Massobrio, Marco, 346  
 May, Gregory S., 38, 854  
 Mayerhofer, Matthias, 663  
 McKenna, Robert W., 130  
 McKenzie, David A., 292  
 Medina, Philip, 516  
 Merlio, Jean Philippe, 414  
 Middleton, Lavinia P., 381  
 Mikami, Tetuo, 723  
 Miller, Lorraine, 696  
 Moh, Patrick, 556  
 Moher, David, 18  
 Morales, Juan E., 114  
 Morris, Lesley S., 540  
 Morrison, Carl, 279  
 Motoori, Tadashi, 723  
 Mott, Michael J., 339  
 Muir, Trudie, 361  
 Mulcahy, H.E., 108  
 Murphy, J.J., 108  
 Murphy, Linda M., 361  
 Murray, J.D., 14

## N

Nash, Jason W., 114  
 Nasser, Selim M., 801  
 Neiman, Richard S., 199  
 Neoptolemos, John P., 392  
 Nicholson, Andrew G., 709  
 Nikitakis, Nikolaos G., 574

## O

Odish, Eva, 778  
 O'Donoghue, D.P., 108

Okayasu, Isao, 723  
 Olsen, Margaret, 298  
 Ord, Robert A., 574  
 Othman, Yusra, 439  
 Owen, William E., 689  
 Owens, Marilyn, 137

## P

Pantanowitz, Liron, 874  
 Park, Soon, 95  
 Parrens, Marie, 414  
 Pérez, Luis F., 684  
 Peterson, LoAnn C., 833  
 Pham, Audrey S., 38  
 Piketty, Christophe, 546  
 Pirruccello, Samuel J., 292  
 Poller, Leon, 232  
 Polychronopoulos, Vlasios, 709  
 Pope-Harman, Amy, 279, 556  
 Post, Gregory R., 292  
 Prayson, Richard A., 123, 749  
 Puopolo, Manuela, 346

## Q

Qamar, Zainab, 52

## R

Raby, Anne, 72  
 Raffeld, Mark, 213  
 Ragland, Brian D., 66  
 Rainwater, David L., 439  
 Ramuz, Olivier, 374  
 Rappaport, Henry, 137  
 Reddi, Anu, 816  
 Reed, Cari E., 66  
 Refaai, Majed A., 61, 497  
 Reichard, Kaaren K., 130  
 Reitsma, Johannes B., 18  
 Renner, Nancy, 656  
 Rennie, Drummond, 18  
 Renshaw, Andrew A., 388, 797  
 Resta, Debra, 833  
 Reynolds, Mark A., 574  
 Rice, Alexandra J., 709  
 Richardson, Harold, 72  
 Kiley, Mary Beth, 833  
 Ritter, Jon H., 630  
 Rivera, Helen, 574  
 Roberson, A. Janie, 367  
 Roberts, William L., 689  
 Röcken, Christoph, 265  
 Roessner, Albert, 265  
 Rolfe, Mark, 472  
 Rollins, Sarah E., S78  
 Rollins, Sean M., S78  
 Ross, Charles W., 192  
 Ross, Jeffrey S., 26, 472  
 Ross, Patrick, Jr, 114, 279, 556

Rothrauff, Susan K., 279, 556  
 Rous, Brian, 540  
 Ruiz, Angela I., 749  
 Ryan, Edward T., 578

## S

Sabo, Edmond, 696  
 Sahin, Aysegul A., 248  
 Salem, Raneem O., 594  
 Salloum, Rita G., 213  
 Salomão, Diva R., 594  
 Sauk, John J., 574  
 Sausville, Justin E., 213  
 Schnitzer, Bertram, 192  
 Schoenenberger, Ronald A., 432  
 Schrijver, Iris, 490  
 Scorilas, Andreas, 346  
 Segall, Miriam, 568  
 Shahidi, Azra, 95  
 Shahsafaei, Aliakbar, 424  
 Sheahan, K., 108  
 Sheffield, Matthew V., 367  
 Shiach, Caroline, 232  
 Siavash, Hessam, 574  
 Sibaud, Vincent, 414  
 Siegal, Gene P., 101  
 Sillaber, Christian, 663  
 Simonitsch, Ingrid, 663  
 Simsir, Aylin, 367  
 Sioufi, John, 882  
 Skeate, Robert, 807  
 Slovak, Marilyn L., 672  
 Smith, Terry L., 248

Smith Sehdev, Ann E., 859  
 Sneige, Nour, 248  
 Soderberg, Britt L., 594  
 Soilleux, Elizabeth J., 540  
 Sorbara, Lynn, 213  
 Sperr, Wolfgang R., 663  
 Stanley, Michael W., 703  
 Staros, Eric B., 524  
 Steenberg, Charles, 740  
 Stein, Anthony S., 672  
 Stelling, Carol B., 248  
 Stelow, Edward B., 703, 807  
 Stetler-Stevenson, Maryalice, 213  
 Stewart, Carleton, 824  
 Stickle, Douglas F., 292, 516  
 Stipanovich, Priscilla J., 508  
 Storey, Miriam, 45  
 Street, Alison, 882  
 Swanson, Kristin R., 14  
 Swerdlow, Steven H., 145

## T

Tabaczka, Pamela, 339  
 Talley, Lynya, 367  
 Tallman, Martin S., 833  
 Tanasijevic, Milenko J., 432  
 Tarrand, Jeffrey J., 38, 854  
 Taylor, James, 114  
 Theise, Neil D., 254  
 Thiebaut, Rodolphe, 414  
 Thompson, Robert B., 292  
 Tichenor, Patricia H., 66  
 Ting, Ling-Tan, 715

Touab, Malika, 587  
 Tripodi, Armando, 232, 241  
 True, Lawrence D., 14  
 Tsang, Patricia, 218  
 Tutor, J. Carlos, 684

## U

Uherova, Patricia, 192  
 Uhl, Lynne, 874

## V

Valdez, Riccardo, 192  
 Valent, Peter, 663  
 Vall, Horacio G., 137  
 Van Cott, Elizabeth M., 61, 497  
 van den Besselaar, Anton M.H.P., 232  
 Variakojis, Daina, 833  
 Vassilakis, Dimitris, 709  
 Venzon, David, 213  
 Vergier, Béatrice, 414  
 Vergilio, Jo-Anne, 558  
 Versalovic, James, 403  
 Vollmer, Robin T., 80  
 Vowler, Sarah, 540

## W

Wahi, Monika M., 807  
 Waldman, W. James, 556  
 Wang, Beverly, 696  
 Warraich, Irfan, 854  
 Weaver, Amy L., 594

Weaver, Donald W., 339  
 Weisberger, James, 218  
 Weiss, Laurence, 546  
 Wells, Alice, 298  
 Wells, Athol U., 709  
 Welsh, Carolyn H., 52  
 Weng, Andrew P., 424  
 West, A. Brian, 254  
 Whitaker, Marion J., 381  
 White, A., 108  
 Whitman, Gary J., 248  
 Wick, Myra, 568  
 Wilson, Michael L., 866  
 Wimazal, Friedrich, 663  
 Wood, Brent L., 643  
 Woods, Jan E., 866  
 Worland, Peter J., 472  
 Wu, C. Daniel, 218  
 Wu, Maoxin, 696  
 Wu, Sang, 298

## Y

Yajima, Mioko, 723  
 Yeom, Bom Woo, 356  
 Yoshida, Tsutomu, 723  
 Young, Anita, 516  
 Young, Mary L., 388  
 Yousef, George M., 346  
 Yunger, Thomas M., 114

## Z

Zehnder, James L., 490

## title index

**Index of Issues:** January, pp 1-168; February, pp 169-312; March, pp 313-456; April, pp 457-616; May, pp 617-760; June, pp 761-928. Page numbers beginning with S denote articles in the June Pathology Patterns Reviews.

### ANATOMIC PATHOLOGY

#### Case Report

Rhabdomyomatous Multilocular Thymic Cyst

*Runjan Chetty and Anu Reddi*, 816

#### Original Articles

Accuracy and Reproducibility of Telecytology Diagnosis of

Cervical Smears: A Tool for Quality Assurance Programs

*Eung Seok Lee, In Sun Kim, Jong Sang Choi, Bom Woo Yeom, Han Kyeom Kim, Jong Ho Han, Mi Sook Lee, and Anthony S-Y Leong*, 356

Agreement and Error Rates Using Blinded Review to Evaluate Surgical Pathology of Biopsy Material

*Andrew A. Renshaw, Norberto Cartagena, Scott R. Granter, and Edwin W. Gould*, 797

Apoptosis Regulation Differs Between Ulcerative Colitis-Associated and Sporadic Colonic Tumors: Association With Survivin and bcl-2

*Tetuo Mikami, Tsutomu Yoshida, Fumiyuki Akino, Tadashi Motoori, Mioko Yajima, and Isao Okayasu*, 723

Atypical Ductal Hyperplasia Diagnosis by Directional Vacuum-Assisted Stereotactic Biopsy of Breast Microcalcifications:

Considerations for Surgical Excision

*Nour Sneige, Sung C. Lim, Gary J. Whitman, Savitri Krishnamurthy, Aysegul A. Sahin, Terry L. Smith, and Carol B. Stelling*, 248

Cause of Death and Sudden Cardiac Death After Heart

Transplantation: An Autopsy Study

*Russell T. Alexander and Charles Steenbergen*, 740

CD105 Expression Is a Marker of High Metastatic Risk and Poor Outcome in Breast Carcinomas: Correlations Between

Immunohistochemical Analysis and Long-Term Follow-up in a Series of 929 Patients

*Jean-Philippe Dales, Stephane Garcia, Pascal Bonnier, Florence Duffaud, Lucile Andrac-Meyer, Olivier Ramuz, Marie-Noëlle Lavaut, Claude Allasia, and Colette Charpin*, 374

c-Kit Expression in Desmoid Fibromatosis: Comparative

Immunohistochemical Evaluation of Two Commercial Antibodies

*David R. Lucas, Mousa Al-Abbadi, Pamela Tabaczka, Merlin R. Hamre, Donald W. Weaver, and Michael J. Mott*, 339

Clinicopathologic Correlations in 646 Consecutive Surgical Eye Specimens, 1990-2000

*Anna S. Kitzmann, Amy L. Weaver, Christine M. Lohse, Helmut Buettner, and Diva R. Salomão*, 594

Comparative Genomic Hybridization: Synchronous Occurrence of Focal Nodular Hyperplasia and Hepatocellular Carcinoma in the Same Liver Is Not Based on Common Chromosomal Aberrations

*Udo Kellner, Anja Jacobsen, Angela Kellner, Dipl Biol, René Mantke, Albert Roessner, and Christoph Röcken*, 265

Comparison of Fluorescence and Chromogenic In Situ Hybridization for Detection of HER-2/*neu* Oncogene in Breast Cancer

*Deepali Gupta, Lavinia P. Middleton, Marion J. Whitaker, and Jacki Abrams*, 381

Detection of Extrahepatic Hepatitis C Virus Replication by a Novel, Highly Sensitive, Single-Tube Nested Polymerase Chain Reaction

*Yuan Hu, Azra Shahidi, Soon Park, Dennis Guilfoyle, and Irvin Hirshfield*, 95

Endoscopic Ultrasound-Guided Fine-Needle Aspiration Findings of Gastrointestinal Leiomyomas and Gastrointestinal Stromal Tumors

*Edward B. Stelow, Michael W. Stanley, Shawn Mallery, Rebecca Lai, Bradley M. Linzie, and Ricardo H. Bardales*, 703

Expression of Androgen, Estrogen, and Progesterone Receptors in Salivary Gland Tumors: Frequent Expression of Androgen Receptor in a Subset of Malignant Salivary Gland Tumors

*Selim M. Nasser, William C. Faquin, and Yogeshwar Dayal*, 801

Expression of Calretinin and the alpha-Subunit of Inhibin in Granular Cell Tumors

*Samson W. Fine and Maomi Li*, 259

Expression of the Proteoglycans Versican and mel-CSPG in Dysplastic Nevi

*Malika Touab, Montserrat Arumi-Uría, Carlos Barranco, and Anna Bassols*, 587

Expression Patterns of Protein Kinase C Isoenzymes Are Characteristically Modulated in Chronic Pancreatitis and Pancreatic Cancer

*James D. Evans, Philip A. Cornford, Andrew Dodson, John P. Neoptolemos, and Christopher S. Foster*, 392

Familial Peritoneal Multifocal Calcifying Fibrous Tumor

*Karl T.K. Chen*, 811

Graft-vs-Host Disease After Solid Organ Transplant

*H. Evin Gulbahce, Charlotte A. Brown, Myra Wick, Miriam Segall, and Jose Jessurun*, 568

- Granulomatous Ecrinotropic Lymphomatoid Papulosis  
A. Neil Crowson, Dmitry Y. Baschinsky, Al Kovatich, and Cynthia Magro, 731
- The Histopathologic Spectrum of Cryofibrinogenemia in Four Anatomic Sites: Skin, Lung, Muscle, and Kidney  
Jason W. Nash, Patrick Ross, Jr, A. Neil Crowson, James Taylor, Juan E. Morales, Thomas M. Yunker, and Cynthia Magro, 114
- How Many Cases Need to Be Reviewed to Compare Performance in Surgical Pathology?  
Andrew A. Renshaw, Mary L. Young, and Michael R. Jiroutek, 388
- Hyperplastic-like Colon Polyps That Preceded Microsatellite-Unstable Adenocarcinomas  
Neal S. Goldstein, Punam Bhanot, Eva Odish, and Susan Hunter, 778
- Immunohistochemical Expression of Angiogenesis-Related Markers in Oral Squamous Cell Carcinomas With Multiple Metastatic Lymph Nodes  
Nikolaos G. Nikitakis, Helen Rivera, Marcio A. Lopes, Hessam Siavash, Mark A. Reynolds, Robert A. Ord, and John J. Sauk, 574
- Immunohistochemical Expression of Cathepsin D in Meningiomas  
Elias A. Castilla, Richard A. Prayson, Caroline M. Abramovich, and Mark L. Cohen, 123
- Immunoreactivity of Hep Par 1 in Hepatic and Extrahepatic Tumors and Its Correlation With Albumin In Situ Hybridization in Hepatocellular Carcinoma  
Sanjay Kakar, Trudie Muir, Linda M. Murphy, Ricardo V. Lloyd, and Lawrence J. Burgart, 361
- Infiltration of *Helicobacter pylori* in the Gastric Mucosa  
Nirag C. Jhala, Gene P. Siegal, Katrin Klemm, Barbara F. Atkinson, and Darshana N. Jhala, 101
- Interobserver Variability in Assessing Adequacy of the Squamous Component in Conventional Cervicovaginal Smears  
Matthew V. Sheffield, Aylin Simsir, Lynya Talley, A. Janie Roberson, Paul A. Elgert, and David C. Chhieng, 367
- Invasive Cutaneous Verruco-Cystic Squamous Cell Carcinoma: A Pattern Commonly Present in Transplant Recipients  
Edward B. Stelow, Robert Skeate, Monika M. Wahi, Desire Langel, and Jose Jessurun, 807
- MIB-1 and DNA Topoisomerase IIa Could Be Helpful for Predicting Long-Term Survival of Patients With Glioblastoma  
Donald Ming-Tak Ho, Chih-Yi Hsu, Ling-Tan Ting, and Hung Chiang, 715
- Myxofibrosarcomas Contain Large Numbers of Infiltrating Immature Dendritic Cells  
Elizabeth J. Soilleux, Brian Rous, Karl Love, Sarah Vowler, Lesley S. Morris, Cyril Fisher, and Nicholas Coleman, 540
- The Neuropathology of West Nile Virus Meningoencephalitis: A Report of Two Cases and Review of the Literature  
Todd W. Kelley, Richard A. Prayson, Angela I. Ruiz, Carlos M. Isada, and Steven M. Gordon, 749
- Non-Tumor-Associated Psammoma Bodies in the Thyroid  
Jennifer L. Hunt and E. Leon Barnes, 90
- p63 and TTF-1 Immunostaining: A Useful Marker Panel for Distinguishing Small Cell Carcinoma of Lung From Poorly Differentiated Squamous Cell Carcinoma of Lung  
Maoxin Wu, Beverly Wang, Joan Gil, Edmond Sabo, Lorraine Miller, Li Gan, and David E. Bursstein, 696
- Peritoneal Involvement in Stage II Colon Cancer  
A.M. Lennon, H.E. Mulcahy, J.M.P. Hyland, C. Lowry, A. White, D. Fennelly, J.J. Murphy, D.P. O'Donoghue, and K. Sheahan, 108
- The Role of Microvascular Injury in the Evolution of Idiopathic Pulmonary Fibrosis  
Cynthia M. Magro, James Allen, Amy Pope-Harman, W. James Waldman, Patrick Moh, Susan Rothrauff, and Patrick Ross, Jr, 556
- Stellate-Cell Lipidosis in Liver Biopsy Specimens: Recognition and Significance  
Pascale Hummel Levine, Yara Delgado, Neil D. Theise, and A. Brian West, 254
- Steroid Hormone Regulation and Prognostic Value of the Human Kallikrein Gene 14 in Ovarian Cancer  
George M. Yousef, Stefano Fracchioli, Andreas Scorilas, Carla A. Borgoño, Lisa Iskander, Manuela Puopolo, Marco Massobrio, Eleftherios P. Diamandis, and Dionyssios Katsaros, 346
- Terminal Diffuse Alveolar Damage in Relation to Interstitial Pneumonias: An Autopsy Study  
Alexandra J. Rice, Athol U. Wells, Demos Bouros, Roland M. du Bois, David M. Hansell, Vlasios Polychronopoulos, Dimitris Vassilakis, Jonathan R. Kerr, Timothy W. Evans, and Andrew G. Nicholson, 709
- Toxic Effects of Nucleoside Reverse Transcriptase Inhibitors on the Liver: Value of Electron Microscopy Analysis for the Diagnosis of Mitochondrial Cytopathy  
Jean-Paul Duong Van Huyen, Alain Landau, Christophe Piketty, Marie-France Bélair, Dominique Batisse, Gustavo Gonzalez-Canali, Laurence Weiss, Raymond Jian, Michel D. Kazatchkine, and Patrick Bruneval, 546
- Tumor Volume in Prostate Cancer and Serum Prostate-Specific Antigen: Analysis From a Kinetic Viewpoint  
Robin T. Vollmer and Peter A. Humphrey, 80

## Review Articles

*Helicobacter pylori*: Pathology and Diagnostic Strategies

James Versalovic, 403

Molecular Discoveries Alter Our View of Inflammatory Bowel Disease: A Review From Scientific, Clinical, and Laboratory Perspectives

Eric B. Staros, 524

## BASIC SCIENCE

### Review Articles

Anticancer Antibodies

Jeffrey S. Ross, Karen Gray, Gary S. Gray, Peter J. Worland, and Mark Rolfe, 472

The Integration of Molecular Diagnostics With Therapeutics: Implications for Drug Development and Pathology Practice

Jeffrey S. Ross and Geoffrey S. Ginsburg, 26

## CLINICAL CHEMISTRY

### Original Articles

Comparison of Low-Density Lipoprotein Size by Polyacrylamide Tube Gel Electrophoresis and Polyacrylamide Gradient Gel Electrophoresis



- Shaina V. Hirany, Yusra Othman, Patricia Kutscher, David L. Rainwater, Ishwarlal Jialal, and Sridevi Devaraj*, 439
- A Computer-Based Intervention for Improving the Appropriateness of Antiepileptic Drug Level Monitoring  
*Philip Chen, Milenko J. Tanasijevic, Ronald A. Schoenenberger, Julie Fiskio, Gilad J. Kuperman, and David W. Bates*, 432
- Effect of Asian and Siberian Ginseng on Serum Digoxin Measurement by Five Digoxin Immunoassays: Significant Variation in Digoxin-Like Immunoreactivity Among Commercial Ginsengs  
*Amitava Dasgupta, Sang Wu, Jeffrey Actor, Margaret Olsen, Alice Wells, and Pradip Datta*, 298
- Effects of Sterilizing Gamma Irradiation on Bloodspot Newborn Screening Tests and Whole Blood Cyclosporine and Tacrolimus Measurements  
*Douglas F. Stickler, David A. McKenzie, James D. Landmark, Samuel J. Pirruccello, Gregory R. Post, Peter C. Iwen, Robert B. Thompson, and Steven H. Hinrichs*, 292
- Performance Characteristics of Four Immunonephelometric Assays for the Quantitative Determination of IgA and IgM in Cerebrospinal Fluid  
*William E. Owen, and William L. Roberts*, 689
- Thermodynamic Determination of Plasma and Leukocyte beta-Hexosaminidase Isoenzymes in Homozygote and Heterozygote Carriers for the GM<sub>2</sub> Gangliosidosis B1 Variant  
*J. Antonio Casal, Luis F. Pérez, and J. Carlos Tutor*, 684

## COAGULATION AND TRANSFUSION MEDICINE

### Original Articles

- Activated Protein C Resistance Assay Detects Thrombotic Risk Factors Other Than Factor V Leiden  
*Laurie L. Graf, Carolyn H. Welsh, Zainab Qamar, and Richard A. Marlar*, 52
- Clinical Significance of a Borderline Titer in a Negative ELISA Test for Heparin-Induced Thrombocytopenia  
*Majed A. Refaai, Michael Laposata, and Elizabeth M. Van Cott*, 61
- Cryoprecipitate: Patterns of Use  
*Liron Pantanowitz, Margot S. Kruskall, and Lynne Uhl*, 874
- Diagnostic Single Nucleotide Polymorphism Analysis of Factor V Leiden and Prothrombin 20210G>A: A Comparison of the Nanogen Electronic Microarray With Restriction Enzyme Digestion and the Roche LightCycler  
*Iris Schrijver, Marla J. Lay, and James L. Zehnder*, 490
- The Effect of Lupus Anticoagulant in the Second-Generation Assay for Activated Protein C Resistance  
*Brian D. Ragland, Cari E. Reed, Barbara M. Eiland, Patricia H. Tichenor, Christine L. Hudson, George A. Fritsma, Brian K. Adler, and Marisa B. Marques*, 66
- European Concerted Action on Anticoagulation: Minimum Numbers of Lyophilized Plasma Samples for ISI Calibration of CoaguChek and TAS Point-of-Care Whole Blood Prothrombin Time Monitors  
*Leon Poller, Michelle Keown, Nikhil Chauhan, Anton M.H.P. van den Besselaar, Armando Tripodi, Jorgen Jespersen, and Caroline Shiach*, 232
- Fetal-Maternal Hemorrhage Detection in Ontario  
*John D. Lafferty, Anne Raby, Linda Crawford, Lori Anne Linkins, Harold Richardson, and Mark Crowther*, 72

- International Sensitivity Index Calibration of the Near-Patient Testing Prothrombin Time Monitor, ProTime  
*Armando Tripodi, Veena Chantarangkul, Caterina Bressi, Pier Mannuccio Mannucci*, 241
- Laboratory Diagnosis of von Willebrand Disorder: Current Practice in the Southern Hemisphere  
*Emmanuel J. Favaloro, Roslyn Bonar, John Sioufi, Mark Hertzberg, Alison Street, John Lloyd, and Katherine Marsden, on behalf of the RCPA Quality Assurance Program in Haematology Haemostasis Committee*, 882
- The Timing of a Positive Test Result for Heparin-Induced Thrombocytopenia Relative to the Platelet Count and Anticoagulant Therapy in 43 Consecutive Cases  
*Majed A. Refaai, Elizabeth M. Van Cott, and Michael Laposata*, 497

## EDITORIALS

- Diagnosis of Invasive Mold Infection: Is PCR the Answer?  
*John D. Christie*, 11
- Hyperplastic-like Polyps as Precursors of Microsatellite-Unstable Colorectal Cancer  
*Jeremy R. Jass*, 773
- On the Use of Quantitative Modeling to Help Understand Prostate-Specific Antigen Dynamics and Other Medical Problems  
*Kristin R. Swanson, Lawrence D. True, and J.D. Murray*, 14
- To Stain or Disdain, That Is the Question...  
*Jon H. Ritter*, 630
- Validating Immunohistochemical Staining for KIT (CD117)  
*Jason L. Hornick and Christopher D.M. Fletcher*, 325

## HEMATOPATHOLOGY

### Original Articles

- B-Cell Lymphomas With Coexpression of CD5 and CD10  
*Henry Y. Dong, Wojciech Gorczyca, Zach Liu, Patricia Tsang, C. Daniel Wu, Patti Cohen, and James Weisberger*, 218
- bcl-2 Expression by Multicolor Flow Cytometric Analysis Assists in the Diagnosis of Follicular Lymphoma in Lymph Node and Bone Marrow  
*James R. Cook, Fiona E. Craig, and Steven H. Swerdlow*, 145
- Bone Marrow Histopathologic and Molecular Staging in Epidermotropic T-Cell Lymphomas  
*Vincent Sibaud, Marie Beylot-Barry, Rodolphe Thiébaud, Marie Parrens, Béatrice Vergier, Michèle Delaunay, Claire Beylot, Geneviève Chêne, Jacky Ferrer, Antoine de Mascarel, Pierre Dubus, and Jean Philippe Merlio*, 414
- Chronic Myeloid Leukemia Following Therapy With Imatinib Mesylate (Gleevec): Bone Marrow Histopathology and Correlation With Genetic Status  
*John L. Frater, Martin S. Tallman, Daina Variakojis, Brian J. Druker, Debra Resta, Mary Beth Riley, Mary Ann Hrisinko, and LoAnn C. Peterson*, 833

Comparative Analysis of Light Chain Expression in Germinal Center Cells and Mantle Cells of Reactive Lymphoid Tissues: A Four-Color Flow Cytometric Study

*Kaaren K. Reichard, Robert W. McKenna, and Steven H. Kroft, 130*

Comparison of Fascin Expression in Anaplastic Large Cell Lymphoma and Hodgkin Disease

*Guang Fan, Patricia Kotylo, Richard S. Neiman, and Rita M. Brazier, 199*

Contribution of IgH-PCR to the Evaluation of B-Cell Lymphoma Involvement in Paraffin-Embedded Bone Marrow Biopsy Specimens

*Richard Braunschweig, Audrey Sylvia Baur, Françoise Delacrétae, Charlotte Bricod, and Jean Benhattar, 634*

CXCR4/CD184 Immunoreactivity in T-Cell Non-Hodgkin Lymphomas With an Overall Th1- Th2+ Immunophenotype

*Andrew P. Weng, Aliakbar Shahsafaei, and David M. Dorfman, 424*

Elimination of Instrument-Driven Reflex Manual Differential Leukocyte Counts: Optimization of Manual Blood Smear Review Criteria in a High-Volume Automated Hematology Laboratory

*Kay L. Lantis, R. Jayne Harris, Gerald Davis, Nancy Renner, and William G. Finn, 656*

Evolution of Myelofibrosis in Chronic Idiopathic Myelofibrosis as Evidenced in Sequential Bone Marrow Biopsy Specimens

*Thomas Buhr, Guntram Büsche, Harald Choritz, Florian Länger, and Hans Kreipe, 152*

HLA-DO: A Useful Marker to Distinguish Follicular Hyperplasia From Follicular Lymphoma by Flow Cytometry

*Xinjian Chen, Peter E. Jensen, and Shiyong Li, 842*

Immunophenotypic Analysis of Anaplastic Large Cell Lymphoma by Flow Cytometry

*Jonathan Juco, Jeannine T. Holden, Karen P. Mann, Lloyd G. Kelley, and Shiyong Li, 205*

Immunohistochemical Detection of VEGF in the Bone Marrow of Patients With Acute Myeloid Leukemia: Correlation Between VEGF Expression and the FAB Category

*Minoo Ghannadan, Friedrich Wimazal, Ingrid Simonitsch, Wolfgang R. Sperr, Matthias Mayerhofer, Christian Sillaber, Alexander W. Hauswirth, Helmut Gadner, Andreas Chott, Hans-Peter Horny, Klaus Lechner, and Peter Valent, 663*

Lineage-Specific Identification of Nonhematopoietic Neoplasms by Flow Cytometry

*Anthony Chang, Peter M. Benda, Brent L. Wood, and Steven J. Kussick, 643*

Minimal Residual Disease Detection in Hairy Cell Leukemia: Comparison of Flow Cytometric Immunophenotyping With Clonal Analysis Using Consensus Primer Polymerase Chain Reaction for the Heavy Chain Gene

*Justin E. Sausville, Rita G. Salloum, Lynn Sorbara, Douglas W. Kingma, Mark Raffeld, Robert J. Kreitman, Paula D. Imus, David Venzon, and Maryalice Stetler-Stevenson, 213*

Nodular Lymphocyte Predominant Hodgkin Lymphoma: An Immunophenotypic Reappraisal Based on a Single-Institution Experience

*Patricia Uherova, Riccardo Valdez, Charles W. Ross, Bertram Schnitzer, and William G. Finn, 192*

A Novel Method for the Detection, Quantitation, and Breakpoint Cluster Region Determination of t(15;17) Fusion Transcripts Using a One-Step Real-Time Multiplex RT-PCR

*Paul C. Choppa, Jamie Gomez, Horacio G. Vall, Marilyn Owens, Henry Rappaport, and Jean R. Lopategui, 137*

Phenotypic Heterogeneity of B Cells in Patients With Chronic Lymphocytic Leukemia/Small Lymphocytic Lymphoma

*Bal Kampalath, Maurice P. Barcos, and Carleton Stewart, 824*

Prognostic Impact of Acute Myeloid Leukemia Classification: Importance of Detection of Recurring Cytogenetic Abnormalities and Multilineage Dysplasia on Survival

*Daniel A. Arber, Anthony S. Stein, Nora H. Carter, David Ikle, Stephen J. Forman, and Marilyn L. Slovak, 672*

## IMMUNOPATHOLOGY

### Original Articles

Direct and Indirect Immunofluorescence as a Diagnostic Adjunct in the Interpretation of Nonneoplastic Medical Lung Disease

*Cynthia M. Magro, Carl Morrison, Amy Pope-Harman, Susan K. Rothrauff, and Patrick Ross, Jr, 279*

Quantitative Analysis of Serum Free Light Chains: A New Marker for the Diagnostic Evaluation of Primary Systemic Amyloidosis

*Roshini S. Abraham, Jerry A. Katzmman, Raynell J. Clark, A.R. Bradwell, Robert A. Kyle, and Morie A. Gertz, 274*

## INFORMATICS

### Review Article

Comprehensive Graphic-Based Display of Clinical Pathology Laboratory Data

*John Bernard Henry and Karen C. Kelly, 330*

## MICROBIOLOGY AND INFECTIOUS DISEASE

### Original Articles

Clinical Usefulness of Components of the Triage Immunoassay, Enzyme Immunoassay for Toxins A and B, and Cytotoxin B Tissue Culture Assay for the Diagnosis of *Clostridium difficile* Diarrhea

*Viki Massey, Daniel B. Gregson, Abdul H. Chagla, Miriam Storey, Michael A. John, and Zafar Hussain, 45*

Detection of IgG and IgM to West Nile Virus: Development of an Immunofluorescence Assay

*Annette K. Malan, Priscilla J. Stipanovich, Thomas B. Martins, Harry R. Hill, and Christine M. Litwin, 508*

Diagnosis of Invasive Mold Infection by Real-Time Quantitative PCR

*Audrey S. Pham, Jeffrey J. Tarrand, Gregory S. May, Ming S. Lee, Dimitrios P. Kontoyiannis, and Xiang Y. Han, 38*

Diagnosis of Invasive Septate Mold Infections: A Correlation of Microbiological Culture and Histologic or Cytologic Examination

*Jeffrey J. Tarrand, Mathias Lichterfeld, Irfan Warraich, Mario Luna, Xiang Y. Han, Gregory S. May, and Dimitrios P. Kontoyiannis, 854*

Evaluation of Urine Specimen Integrity in a Public Health STD Screening Program

*Nathan C. Birch, Douglas F. Stickle, Anita Young, Philip Medina, and Steven H. Hinrichs, 516*

Hepatic Pathology in Human Monocytic Ehrlichiosis: *Ehrlichia chaffeensis* Infection

*Ann E. Smith Sehdev and J. Stephen Dumler, 859*

Infectious Diseases Detected at Autopsy at an Urban Public Hospital, 1996-2001

*Lian A. Bonds, Loretta Gaido, Jan E. Woods, David L. Cohn, and Michael L. Wilson, 866*

## **PATHOLOGY PATTERNS REVIEWS**

Cystic Neoplasms of the Pancreas

*Jeffrey D. Goldsmith, S3*

Fatty Acid Ethyl Esters: Ethanol Metabolites That Reflect Ethanol Intake

*Britt L. Soderberg, Raneem O. Salem, Catherine A. Best, Joanne E. Cluette-Brown, and Michael Laposata, S94*

Guide to Porphyrrias: A Historical and Clinical Perspective

*Stacy E. Foran and György Ábel, S86*

Myelodysplastic Syndromes: Contemporary Biologic Concepts and Emerging Diagnostic Approaches

*Jo-Anne Vergilio and Adam Bagg, S58*

Screen-Detected Adenocarcinoma of the Lung: Practical Points for Surgical Pathologists

*Douglas B. Flieder, S39*

Standard and Molecular Cytogenetics of Endocrine Tumors

*Marille Herrmann, S17*

*Yersinia pestis* and the Plague

*Sarah E. Rollins, Sean M. Rollins, and Edward T. Ryan, S78*

## **SPECIAL ARTICLES**

Recommendations for the Reporting of Lymphoid Neoplasms

*Association of Directors of Anatomic and Surgical Pathology, 185*

Recommendations for the Reporting of Tissues Removed as Part of the Surgical Treatment of Common Malignancies of the Eye and Its Adnexa

*Association of Directors of Anatomic and Surgical Pathology, 179*

Toward Complete and Accurate Reporting of Studies of Diagnostic Accuracy: The STARD Initiative

*Patrick M. Bossuyt, Johannes B. Reitsma, David E. Bruns,*

*Constantine A. Gatsonis, Paul P. Glasziou, Les M. Irwig, Jeroen G. Lijmer, David Moher, Drummond Rennie, and Henrica C.W. de Vet, 18*

What Is Needed to Satisfy the American College of Surgeons

Commission on Cancer Requirements for the Pathologic Reporting of Cancer Specimens?

*James L. Connolly and Christopher D.M. Fletcher, 629*



# subject index

**Index of Issues:** January, pp 1-168; February, pp 169-312; March, pp 313-456; April, pp 457-616; May, pp 617-760; June, pp 761-928. Page numbers beginning with S denote articles in the June Pathology Patterns Reviews.

## A

- Aberrant markers, phenotypic heterogeneity of B cells in patients with chronic lymphocytic leukemia/small lymphocytic lymphoma, 824
- Abstracts of Papers, 603, 916
- Accuracy, diagnostic. *See* Diagnostic accuracy
- Acid elution, for fetal-maternal hemorrhage detection, 72
- Acquired immunodeficiency syndrome. *See* Human immunodeficiency virus infection
- Activated protein C resistance
  - assay detects thrombotic risk factors other than factor V Leiden, 52
  - lupus anticoagulant in the second-generation assay for, effect of, 66
- Acute intermittent porphyria, S91
- Adenocarcinoma
  - colorectal, hyperplastic-like polyps as precursors of microsatellite-unstable, 773, 778
  - and digital imaging in cervical smear diagnosis, 356
  - gastric, *Helicobacter pylori* associated with, 403
  - Hep Par 1 immunoreactivity in hepatic and extrahepatic tumors and its correlation with albumin in situ hybridization in hepatocellular carcinoma, 361
  - of lungs, screen-detected, practical points for surgical pathologists, S39
- Adenoma, serous microcystic, S12
- Adnexa, reporting of tissues removed as part of surgical treatment of common malignancies of the eye and its, recommendations for, 179
- Adrenal cortex, standard and molecular cytogenetics of endocrine tumors, S17
- Albumin in situ hybridization, in hepatocellular carcinoma, Hep Par 1 immunoreactivity in hepatic and extrahepatic tumors and its correlation with, 361
- Alcohol, fatty acid ethyl esters, ethanol metabolites that reflect ethanol intake, S94
- Alemtuzumab (Campath), 472
- Alveoli, terminal diffuse alveolar damage in relation to interstitial pneumonia, 709
- American College of Surgeons Commission on Cancer, requirements for pathologic reporting of cancer specimens, 629
- $\delta$ -Aminolevulinic acid (ALA) dehydratase porphyria, S90
- Amyloidosis, quantitative analysis of serum free light chains, a new marker for diagnostic evaluation of primary systemic, 274
- Anaplastic lymphoma kinase
  - fascin expression in anaplastic large cell lymphoma and Hodgkin disease, comparison of, 199
  - immunophenotypic analysis of anaplastic large cell lymphoma by flow cytometry, 205
- Anaplastic thyroid carcinomas, S17
- Androgen, estrogen, progesterone, and androgen receptors in salivary gland tumors, expression of, frequent expression of androgen receptor in subset of malignant salivary gland tumors, 801
- Anemia, X-linked sideroblastic, S90
- Angiogenesis
  - immunohistochemical expression of angiogenesis-related markers in oral squamous cell carcinomas with multiple metastatic lymph nodes, 574
  - vascular endothelial growth factor as mediator of leukemia-dependent, 663
- Anthrax, effects of sterilizing gamma radiation on bloodspot newborn screening tests and whole blood cyclosporine and tacrolimus measurements, 292
- Antibodies
  - anticancer, 472
  - antiendothelial cell, idiopathic pulmonary fibrosis associated with, 556
- Anticancer antibodies, 472
- Anticoagulation
  - European Concerted Action on Anticoagulation lyophilized plasma samples for ISI calibration of CoaguChek and TAS point-of-care whole blood prothrombin time monitors, 232
  - international sensitivity index calibration of the near-patient ProTime prothrombin time monitor, 241
  - timing of positive test result for heparin-induced thrombocytopenia relative to the platelet count and anticoagulant therapy in 43 cases, 497
- Antiendothelial cell antibodies, idiopathic pulmonary fibrosis associated with, 556
- Antiepileptic drugs, computer-based intervention for improving appropriateness of monitoring levels of, 432
- Antiphospholipids, idiopathic pulmonary fibrosis associated with, 556
- Antiretroviral therapy, toxic effects of nucleoside reverse transcriptase inhibitors on the liver, value of electron microscopy analysis for diagnosis of mitochondrial cytopathy, 546
- Apoptosis
  - with myelodysplastic syndromes, S58

- regulation differs between ulcerative colitis-associated and sporadic colonic tumors, association with survivin and bcl-2, 723
- ASCP President's Message, 304, 446, 602, 754, 915
- Aspergillus*
  - invasive mold infection diagnosis, polymerase chain reaction for, 11, 38
  - invasive septate mold infection diagnosis, correlation of microbiological culture and histologic or cytologic examination, 854
- Association of Directors of Anatomic and Surgical Pathology, guidelines for reporting common malignant tumors, 629
- Atherosclerosis, as cause of death after heart transplantation, 740
- Atypical squamous cells of undetermined significance, and digital imaging in cervical smear diagnosis, 356
- Automated hematology analyzers, elimination of instrument-driven reflex manual differential leukocyte counts, optimization of manual blood smear review criteria in high-volume automated hematology laboratory, 656
- Autopsy, infectious diseases detected at, at an urban public hospital, 1996-2001, 866
- Avastin (bevacizumab), 472

## B

- Bacillus anthracis*, effects of sterilizing gamma radiation on blood-spot newborn screening tests and whole blood cyclosporine and tacrolimus measurements, 292
- B-cell neoplasms
  - lymphoma, with coexpression of CD5 and CD10, 218
  - phenotypic heterogeneity of B cells in patients with chronic lymphocytic leukemia/small lymphocytic lymphoma, 824
- B cells. *See also* B-cell neoplasms
  - germinal center, and follicular lymphoma, 842
- bcl-1, and CD5 and CD10 coexpression in B-cell lymphomas, 218
- bcl-2
  - apoptosis regulation differs between ulcerative colitis-associated and sporadic colonic tumors, association with, 723
  - expression by multicolor flow cytometric analysis, assists in diagnosis of follicular lymphoma in lymph nodes and bone marrow, 145
- bcl-6, and CD5 and CD10 coexpression in B-cell lymphomas, 218
- bcr-abl* gene, and chronic myeloid leukemia following therapy with imatinib mesylate (Gleevec), bone marrow histopathology and correlation with genetic status, 833
- Bethesda System, interobserver variability in assessing adequacy of the squamous component in conventional cervicovaginal smears, 367
- Bevacizumab (Avastin), 472
- Biopsy. *See also* Needle biopsy
  - blinded review for evaluating surgical pathology of material from, agreement and error rates using, 797
  - evolution of myelofibrosis in chronic idiopathic myelofibrosis, as evidenced by sequential bone marrow, 152
  - IgH-polymerase chain reaction, in evaluation of B-cell lymphoma involvement in paraffin-embedded bone marrow, 634
- Bioterrorism, *Yersinia pestis* and the plague, S78
- Blau syndrome, Crohn disease linked to, 525
- Blinded review, for evaluating surgical pathology of biopsy material, agreement and error rates using, 797
- Blood. *See also* Coagulation; Transfusion
  - elimination of instrument-driven reflex manual differential

- leukocyte counts, optimization of manual blood smear review criteria in high-volume automated hematology laboratory, 656
- Bloodspot samples, effects of sterilizing gamma radiation on, 292
- Bone marrow
  - bcl-2 expression by multicolor flow cytometric analysis, assists in diagnosis of follicular lymphoma in lymph nodes and, 145
  - chronic myeloid leukemia following therapy with imatinib mesylate (Gleevec), bone marrow histopathology and correlation with genetic status, 833
  - evolution of myelofibrosis in chronic idiopathic myelofibrosis, as evidenced by sequential bone marrow biopsies, 152
  - histopathologic and molecular staging in epidermotropic T-cell lymphomas, 414
  - IgH-polymerase chain reaction, in evaluation of B-cell lymphoma involvement in paraffin-embedded bone marrow biopsy specimens, 634
  - vascular endothelial growth factor, detection in bone marrow of patients with acute myeloid leukemia, 663
- Book Reviews, 160, 305, 447, 921
- Bowel disease, inflammatory, molecular discoveries altering view of, review from scientific, clinical, and laboratory perspectives, 524
- Brain tumors
  - immunohistochemical expression of cathepsin D in meningioma, 123
  - modeling spatiotemporal growth and invasion of gliomas, 16
- Breast carcinoma
  - CD105 expression as marker of high metastatic risk and poor outcome in, correlations between immunohistochemical analysis and long-term follow-up in a series of 929 patients, 374
  - HER-2/*neu* in, fluorescence and chromogenic in situ hybridization for detection of, comparison of, 381
- Breast neoplasms. *See also* Breast carcinoma
  - atypical ductal hyperplasia diagnosis by directional vacuum-assisted stereotactic biopsy of breast microcalcifications, considerations for surgical excision, 248
- Bubonic plague, *Yersinia pestis* and, S78

## C

- Calcifying fibrous tumor, familial peritoneal multifocal, 811
- Calretinin, expression in granular cell tumors, 259
- Campath (alemtuzumab), 472
- Cancer. *See also* sites and types by name
  - American College of Surgeons Commission on Cancer requirements for pathologic reporting of cancer specimens, 629
  - anticancer antibodies, 472
  - integration of molecular diagnostics with therapeutics, implications for drug development and pathology practice, 26
- Carcinoma. *See also* Adenocarcinoma
  - of breast. *See* Breast carcinoma
  - of colon, ulcerative colitis-associated, apoptosis regulation differs between sporadic colonic tumors and, 723
  - of endocrine system, standard and molecular cytogenetics of tumors of, S17
- hepatocellular
  - Hep Par 1 immunoreactivity in hepatic and extrahepatic tumors and its correlation with albumin in situ hybridization in, 361
  - synchronous occurrence of focal nodular hyperplasia and, in

- the same liver is not based on common chromosomal aberrations, 265
- of lungs
- bronchioloalveolar, 545
  - p63 and thyroid transcription factor-1 as marker panel for distinguishing small cell carcinoma of lung from poorly differentiated squamous cell, 630, 696
- ovarian, steroid hormone regulation and prognostic value of human kallikrein gene 14 in, 346
- of pancreas, protein kinase C isoenzyme expression patterns are characteristically modulated in chronic pancreatitis and, 392
- squamous
- and digital imaging in cervical smear diagnosis, 356
  - immunohistochemical expression of angiogenesis-related markers in oral, with multiple metastatic lymph nodes, 574
  - invasive cutaneous verruco-cystic, a pattern commonly present in transplant recipients, 807
  - of thyroid gland, non-tumor-associated psammoma bodies, 90
- Cathepsin D, in meningioma, immunohistochemical expression of, 123
- CCR4, and CXCR4/CD184 immunoreactivity in T-cell non-Hodgkin lymphomas with an overall Th1- Th2+ immunophenotype, 424
- CD2, phenotypic heterogeneity of B cells in patients with chronic lymphocytic leukemia/small lymphocytic lymphoma, 824
- CD5, B-cell lymphomas with coexpression of CD10 and, 218
- CD7, phenotypic heterogeneity of B cells in patients with chronic lymphocytic leukemia/small lymphocytic lymphoma, 824
- CD10
- B-cell lymphomas with coexpression of CD5 and, 218
  - phenotypic heterogeneity of B cells in patients with chronic lymphocytic leukemia/small lymphocytic lymphoma, 824
- CD13, phenotypic heterogeneity of B cells in patients with chronic lymphocytic leukemia/small lymphocytic lymphoma, 824
- CD30
- and CXCR4/CD184 immunoreactivity in T-cell non-Hodgkin lymphomas with an overall Th1- Th2+ immunophenotype, 424
  - granulomatous eccrinotropic lymphomatoid papulosis, 731
- CD33, phenotypic heterogeneity of B cells in patients with chronic lymphocytic leukemia/small lymphocytic lymphoma, 824
- CD34, phenotypic heterogeneity of B cells in patients with chronic lymphocytic leukemia/small lymphocytic lymphoma, 824
- CD56, flow cytometric assays for identifying expression of, 643
- CD69, and CXCR4/CD184 immunoreactivity in T-cell non-Hodgkin lymphomas with an overall Th1- Th2+ immunophenotype, 424
- CD90, and lineage-specific identification of nonhematopoietic neoplasms by flow cytometry, 643
- CD99, flow cytometric assays for identifying expression of, 643
- CD105, as marker of high metastatic risk and poor outcome in breast carcinomas, correlations between immunohistochemical analysis and long-term follow-up in a series of 929 patients, 374
- CD184, CXCR4/CD184 immunoreactivity in T-cell non-Hodgkin lymphomas with an overall Th1- Th2+ immunophenotype, 424
- Cerebrospinal fluid, immunonephelometric assays for quantitative determination of IgA and IgM in, performance characteristics of four, 689
- Cervicovaginal smears
- interobserver variability in assessing adequacy of the squamous component in conventional, 367
  - telectology of, accuracy and reproducibility of, a tool for quality assurance programs, 356
- Checklists, for reporting diagnostic accuracy studies, 18
- Chimeric antibodies, 472
- Chimerism, and graft-vs-host disease after solid organ transplant, 568
- Chlamydia trachomatis*, detecting in urine using molecular amplification assays, 516
- Cholangiocarcinoma, Hep Par 1 immunoreactivity in hepatic and extrahepatic tumors and its correlation with albumin in situ hybridization in hepatocellular carcinoma, 361
- Chromosomal abnormalities, synchronous occurrence of focal nodular hyperplasia and hepatocellular carcinoma in the same liver is not based on common, 265
- c-Kit, expression in desmoid fibromatosis, comparative immunohistochemical evaluation of two commercial antibodies, 325, 339
- Classification, of acute myeloid leukemia, prognostic impact of, importance of detecting cytogenetic abnormalities and multilineage dysplasia on survival, 672
- Clonality, minimal residual disease detection in hairy cell leukemia, comparison of flow cytometric immunophenotyping with clonal analysis using consensus primer polymerase chain reaction for the heavy chain gene, 213
- Clostridium difficile* diarrhea, Triage immunoassay, enzyme immunoassay for toxins A and B, and cytotoxin B tissue culture assay for diagnosis of, 45
- CoaguChek point-of-care whole blood prothrombin time monitoring system, minimum numbers of lyophilized plasma samples for ISI calibration of TAS and, 232
- Coagulation. *See also* Anticoagulation; Coagulation factors; Prothrombin time
- cryoprecipitate, patterns of use of, 874
- Coagulation factors. *See also* Factor V Leiden; Factor VIII
- cryoprecipitate, patterns of use of, 874
- Colitis, ulcerative
- apoptosis regulation differs between ulcerative colitis-associated and sporadic colonic tumors, association with survivin and bcl-2, 723
  - molecular discoveries altering view of inflammatory bowel disease, review from scientific, clinical, and laboratory perspectives, 524
- Collagen-binding protein 2/heat shock protein 47, as angiogenesis-related marker in oral squamous cell carcinomas with multiple metastatic lymph nodes, 574
- Collagen XVIII, as angiogenesis-related marker in oral squamous cell carcinomas with multiple metastatic lymph nodes, 574
- College of American Pathologists Cancer Committee, guidelines for reporting common malignant tumors, 629
- Colon. *See also* Colorectal cancer
- apoptosis regulation differs between ulcerative colitis-associated and sporadic tumors of, association with survivin and bcl-2, 723
  - inflammatory bowel disease, molecular discoveries altering view of, review from scientific, clinical, and laboratory perspectives, 524
- Colorectal cancer
- hyperplastic-like polyps, as precursors of microsatellite-unstable colon adenocarcinomas, 773, 778
  - peritoneal involvement in stage II, 108

- Complementary DNA, extrahepatic hepatitis C virus replication, detection by novel, highly sensitive, single-tube nested polymerase chain reaction, 95
- Complete blood cell count, elimination of instrument-driven reflex manual differential leukocyte counts, optimization of manual blood smear review criteria in high-volume automated hematology laboratory, 656
- Computers
- computer-based intervention for improving appropriateness of antiepileptic drug level monitoring, 432
  - laboratory information systems, comprehensive graphic-based display of clinical pathology laboratory data, 330
- Congenital erythropoietic porphyria (Günther disease), S91
- Conjugated antibodies, 472
- Connective tissue disorders, acute interstitial pneumonia and diffuse alveolar damage associated with, 709
- Core needle biopsy, atypical ductal hyperplasia diagnosis by directional vacuum-assisted stereotactic biopsy of breast microcalcifications, 248
- Correspondence, 306, 448, 607
- Crohn disease, molecular discoveries altering view of inflammatory bowel disease, review from scientific, clinical, and laboratory perspectives, 524
- Cryofibrinogenemia, histopathologic spectrum of, in four anatomic sites, 114
- Cryoprecipitate, patterns of use of, 874
- CXCR3, and CXCR4/CD184 immunoreactivity in T-cell non-Hodgkin lymphomas with an overall Th1–Th2+ immunophenotype, 424
- CXCR4/CD184, immunoreactivity in T-cell non-Hodgkin lymphomas with an overall Th1–Th2+ immunophenotype, 424
- Cyclosporine, effects of sterilizing gamma radiation on measurements of, 292
- Cystic neoplasms of the pancreas, S3
- Cysts, rhabdomyomatous multilocular thymic, 816
- Cytogenetics, of endocrine tumors, standard and molecular, S17
- Cytokeratins, flow cytometric assays for identifying expression of, 643
- Cytology
- gynecologic. *See* Gynecologic cytology
  - telecytology in cervical smear diagnosis, accuracy and reproducibility of, a tool for quality assurance programs, 356
- Cytomegalovirus, idiopathic pulmonary fibrosis associated with, 556
- Cytotoxin B tissue culture assay, in *Clostridium difficile*-associated diarrhea diagnosis, 45
- D**
- Daclizumab (Zenapax), 472
- Data display, comprehensive graphic-based display of clinical pathology laboratory data, 330
- Deimmunized antibodies, 472
- Dendritic cells, myxofibrosarcomas as containing large numbers of infiltrating immature, 540
- Dendritic cell-specific intercellular adhesion molecule-3 grabbing nonintegrin, as marker of dendritic cells, 540
- Diagnosis. *See also* Diagnostic accuracy; Diagnostic errors of infectious diseases, autopsy and clinical compared, 866
- Diagnostic accuracy
- agreement and error rates using blinded review to evaluate surgical pathology of biopsy material, 797
  - how many cases need to be reviewed to compare performance in surgical pathology, 388
  - toward complete and accurate reporting of studies of, 18
- Diagnostic errors
- agreement and error rates using blinded review to evaluate surgical pathology of biopsy material, 797
  - how many cases need to be reviewed to compare performance in surgical pathology, 388
- Diarrhea, *Clostridium difficile*-associated, Triage immunoassay, enzyme immunoassay for toxins A and B, and cytotoxin B tissue culture assay for diagnosis of, 45
- Differential counts, leukocyte, elimination of instrument-driven reflex manual, optimization of manual blood smear review criteria in high-volume automated hematology laboratory, 656
- Digital imaging, in cervical smear diagnosis, 356
- Digoxin, effects of Asian and Siberian ginseng on serum measurement of, by five digoxin immunoassays, significant variation in digoxin-like immunoreactivity among commercial ginsengs, 298
- Direct immunofluorescent assay, as diagnostic adjunct in interpretation of nonneoplastic medical lung disease, 279
- DNA, complementary, extrahepatic hepatitis C virus replication, detection by novel, highly sensitive, single-tube nested polymerase chain reaction, 95
- DNA topoisomerase II $\alpha$ , as prognostic marker for glioblastoma, 715
- Drug interference, effects of Asian and Siberian ginseng on serum digoxin measurement by five digoxin immunoassays, significant variation in digoxin-like immunoreactivity among commercial ginsengs, 298
- Drugs, therapeutic. *See also* Drug interference
- antiepileptic drugs, computer-based intervention for improving appropriateness of monitoring levels of, 432
  - antiretroviral therapy, toxic effects of nucleoside reverse transcriptase inhibitors on the liver, value of electron microscopy analysis for diagnosis of mitochondrial cytopathy, 546
  - immunosuppressive drug therapy, effects of sterilizing gamma radiation on cyclosporine and tacrolimus measurements, 292
  - integration of molecular diagnostics with therapeutics, implications for drug development and pathology practice, 26
- Duodenum, *Helicobacter pylori* associated with diseases of, 403
- E**
- Eccrine coil, granulomatous eccrinotropic lymphomatoid papulosis, 731
- Edrecolomab (Panorex), 472
- Ehrlichia chaffeensis*, human monocytic ehrlichiosis, hepatic pathology in, 859
- Ehrlichiosis, human monocytic, hepatic pathology in, 859
- Electron microscopy, for diagnosis of mitochondrial cytopathy due to toxic effects of nucleoside reverse transcriptase inhibitors on the liver, value of, 546
- Electrophoresis, gel, comparison of low-density lipoprotein size by polyacrylamide tube vs polyacrylamide gradient, 439
- Endocrine system, standard and molecular cytogenetics of tumors of, S17
- Endoscopic ultrasound, fine-needle aspiration guided by, gastrointestinal leiomyomas and gastrointestinal stromal tumors distinguished by, 703



- Endostatin, as angiogenesis-related marker in oral squamous cell carcinomas with multiple metastatic lymph nodes, 574
- Enucleation, clinicopathologic correlations in 646 consecutive surgical eye specimens, 1990-2000, 594
- Enzyme activation energy, and thermodynamic determination of plasma and leukocyte of beta-hexosaminidase isoenzymes in homozygote and heterozygote carriers for the GM<sub>2</sub> gangliosidosis, B1 variant, 684
- Enzyme immunoassay, in *Clostridium difficile*-associated diarrhea diagnosis, 45
- Enzyme-linked immunosorbent assay  
for heparin-induced thrombocytopenia, clinical significance of borderline titer in a negative, 61  
for West Nile virus detection, 508
- Epithelial cell adhesion molecule, flow cytometric assays for identifying expression of, 643
- Epithelial glycoprotein-2, flow cytometric assays for identifying expression of, 643
- Errors, diagnostic. *See* Diagnostic errors
- Erythropoietic protoporphyria, S92
- Estrogen, androgen, estrogen, and progesterone receptors in salivary gland tumors, expression of, frequent expression of androgen receptor in subset of malignant salivary gland tumors, 801
- Ethanol, fatty acid ethyl esters, ethanol metabolites that reflect intake of, S94
- European Concerted Action on Anticoagulation, minimum numbers of lyophilized plasma samples for ISI calibration of CoaguChek and TAS point-of-care whole blood prothrombin time monitors, 232
- Evidence-based medicine, computer-based intervention for improving appropriateness of antiepileptic drug level monitoring, 432
- Evisceration, clinicopathologic correlations in 646 consecutive surgical eye specimens, 1990-2000, 594
- Exenteration, clinicopathologic correlations in 646 consecutive surgical eye specimens, 1990-2000, 594
- Eyes  
clinicopathologic correlations in 646 consecutive surgical eye specimens, 1990-2000, 594  
reporting of tissues removed as part of surgical treatment of common malignancies of the eye and its adnexa, recommendations for, 179
- F**
- Factor V Leiden  
activated protein C resistance assay detects thrombotic risk factors other than, 52  
diagnostic single nucleotide polymorphism analysis of prothrombin 2021G>A and, comparison of Nanogen electronic microarray with restriction enzyme digestion and Roche LightCycler, 490  
effect of lupus anticoagulant in the second-generation assay for activated protein C resistance, 66
- Factor VIII  
activated protein C resistance assay detects thrombotic risk factors other than factor V Leiden, 52  
cryoprecipitate, patterns of use of, 874  
von Willebrand disease, laboratory diagnosis of, current practice in the southern hemisphere, 882
- Fascin, expression in anaplastic large cell lymphoma and Hodgkin disease, comparison of, 199
- Fat-storage cells, stellate-cell lipidosis, in liver biopsy specimens, recognition and significance, 254
- Fatty acid ethyl esters, ethanol metabolites that reflect ethanol intake, S94
- Fetal-maternal hemorrhage, Ontario detection and quantitation surveys of, 72
- Fibrinogen, cryoprecipitate, patterns of use of, 874
- Fibrin sealant, cryoprecipitate used for making, 874
- Fibromatosis, desmoid, c-Kit expression in, comparative immunohistochemical evaluation of two commercial antibodies, 325, 339
- Fibrosis, idiopathic pulmonary  
and interstitial pneumonias, 709  
microvascular injury in evolution of, 556
- Fine-needle aspiration biopsy, endoscopic ultrasound-guided, for distinguishing gastrointestinal leiomyomas from gastrointestinal stromal tumors, 703
- Flow cytometry  
for CD5 and CD10 detection in B-cell lymphomas, 218  
HLA-DO as useful marker to distinguish florid follicular hyperplasia from follicular lymphoma by, 842  
immunophenotyping by  
of anaplastic large cell lymphoma, 205  
comparative analysis of light chain expression in germinal center cells and mantle cells of reactive lymphoid tissues, 130  
for minimal residual disease detection in hairy cell leukemia, comparison with clonal analysis using consensus primer polymerase chain reaction for the heavy chain gene, 213  
lineage-specific identification of nonhematopoietic neoplasms by, 643  
multicolor, bcl-2 expression by, assists in diagnosis of follicular lymphoma in lymph nodes and bone marrow, 145
- Fluorescence in situ hybridization, vs chromogenic, for detection of HER-2/*neu* in breast cancer, comparison of, 381
- Follicular thyroid carcinoma, S21
- French-American-British Cooperative Group Classification  
prognostic impact of classification of acute myeloid leukemia, importance of detecting cytogenetic abnormalities and multilineage dysplasia on survival, 672  
vascular endothelial growth factor in bone marrow of patients with acute myeloid leukemia, correlation between VEGF expression and FAB category, 663
- Fungi. *See* Mold infection
- Fusarium*, diagnosis of invasive septate mold infection, correlation of microbiological culture and histologic or cytologic examination, 854
- G**
- Gamma radiation, sterilizing, effects on bloodspot newborn screening tests and whole blood cyclosporine and tacrolimus measurements, 292
- Gangliosidosis, GM<sub>2</sub>, B1 variant, thermodynamic determination of plasma and leukocyte beta-hexosaminidase isoenzymes in homozygote and heterozygote carriers for, 684
- Gastritis, *Helicobacter pylori* causing, 403
- Gastrointestinal stromal tumors  
desmoid fibromatosis distinguished from, 325, 339  
endoscopic ultrasound-guided fine-needle aspiration findings of gastrointestinal leiomyomas and, 703
- Gastrointestinal tract. *See also* Colon; Gastrointestinal stromal tumors; Stomach



- standard and molecular cytogenetics of endocrine tumors, S17
- Gel electrophoresis, comparison of low-density lipoprotein size by polyacrylamide tube vs polyacrylamide gradient, 439
- Gemtuzumab (Mylotarg), 472
- Gene rearrangement, IgH-polymerase chain reaction, in evaluation of B-cell lymphoma involvement in paraffin-embedded bone marrow biopsy specimens, 634
- Genomic hybridization, comparative, synchronous occurrence of focal nodular hyperplasia and hepatocellular carcinoma in the same liver is not based on common chromosomal aberrations, 265
- Germinal center cells, and mantle cells of reactive lymphoid tissues, comparative analysis of light chain expression in, a four-color flow cytometric study, 130
- Ginseng, effects of Asian and Siberian ginseng on serum digoxin measurement by five digoxin immunoassays, significant variation in digoxin-like immunoreactivity among commercial, 298
- Gleevec. *See* Imatinib mesylate
- Glioblastoma, MIB-1 and DNA topoisomerase II $\alpha$  as helpful for predicting long-term survival of patients with, 715
- Glomerulopathy, histopathologic spectrum of cryofibrinogenemia, in four anatomic sites, 114
- Graft-vs-host disease, after solid organ transplant, 568
- Granular cell tumors, expression of calretinin and the alpha-subunit of inhibin in, 259
- Granulomatous eccrinotropic lymphomatoid papulosis, 731
- Growth factor, vascular endothelial, in bone marrow of patients with acute myeloid leukemia, immunohistochemical detection of, correlation between VEGF expression and French-American-British category, 663
- Günther disease (congenital erythropoietic porphyria), S91
- Gynecologic cytology. *See also* Cervicovaginal smears  
how many cases need to be reviewed to compare performance in, 388
- ## H
- Heart transplantation, cause of death and sudden cardiac death after, an autopsy study, 740
- Heat shock protein 47, as angiogenesis-related marker in oral squamous cell carcinomas with multiple metastatic lymph nodes, 574
- Helicobacter pylori*  
infiltration of, in the gastric mucosa, 101  
pathology and diagnostic strategies for, 403
- Hematology analyzers, automated, elimination of instrument-driven reflex manual differential leukocyte counts, optimization of manual blood smear review criteria in high-volume automated hematology laboratory, 656
- Heme biosynthesis, porphyrias and, S86
- Hemolytic disease of the newborn, fetal-maternal hemorrhage detection studies in Ontario, 72
- Hemostasis, surgical, cryoprecipitate used to aid, 874
- Heparin  
clinical significance of borderline titer in a negative enzyme-linked immunosorbent assay test for heparin-induced thrombocytopenia, 61  
timing of positive test result for heparin-induced thrombocytopenia relative to the platelet count and anticoagulant therapy in 43 cases, 497
- Hepatic coproporphyrria, S92
- Hepatitis C virus, extrahepatic replication of, detection by novel, highly sensitive, single-tube nested polymerase chain reaction, 95
- Hepatoerythropoietic porphyria, S91
- Hep Par 1, immunoreactivity in hepatic and extrahepatic tumors and its correlation with albumin in situ hybridization in hepatocellular carcinoma, 361
- HER-2/*neu*, in breast cancer, fluorescence and chromogenic in situ hybridization for detection of, comparison of, 381
- Herceptin (trastuzumab), 472
- beta-Hexosaminidase, thermodynamic determination of plasma and leukocyte isoenzymes of, in homozygote and heterozygote carriers for the GM<sub>2</sub> gangliosidosis, B1 variant, 684
- High-grade squamous intraepithelial lesions, and digital imaging in cervical smear diagnosis, 356
- Histology, *Helicobacter pylori*, pathology and diagnostic strategies for, 403
- HLA-DO, as useful marker to distinguish florid follicular hyperplasia from follicular lymphoma, by flow cytometry, 842
- Hodgkin disease  
fascin expression in anaplastic large cell lymphoma and, comparison of, 199  
nodular lymphocyte predominant, an immunophenotypic reappraisal based on a single-institution experience, 192
- Hormones, androgen, estrogen, and progesterone receptors in salivary gland tumors, expression of, frequent expression of androgen receptor in subset of malignant salivary gland tumors, 801
- Human immunodeficiency virus infection  
infectious diseases detected at autopsy, at an urban public hospital, 1996-2001, 866  
modeling combination drug therapy, 16  
toxic effects of nucleoside reverse transcriptase inhibitors on the liver, value of electron microscopy analysis for diagnosis of mitochondrial cytopathy, 546
- Humanized antibodies, 472
- Hyperplasia  
atypical ductal, diagnosis by directional vacuum-assisted stereotactic biopsy of breast microcalcifications, considerations for surgical excision, 248  
fibrointimal, as cause of death after heart transplantation, 740  
florid follicular, HLA-DO as useful marker to distinguish follicular lymphoma from, by flow cytometry, 842  
focal nodular, synchronous occurrence of hepatocellular carcinoma and, in the same liver is not based on common chromosomal aberrations, 265  
reactive lymphoid, comparative analysis of light chain expression in germinal center cells and mantle cells of reactive lymphoid tissues, a four-color flow cytometric study, 130
- Hyperplastic-like polyps, as precursors of microsatellite-unstable colon adenocarcinomas, 773, 778
- Hypervitaminosis A, hepatic stellate-cell lipidosis due to, 254
- Hypofibrinogenemia, cryoprecipitate used to correct, 874
- ## I
- Ibritumomab (Zevalin), 472
- Imatinib mesylate (Gleevec; STI571)  
chronic myeloid leukemia following therapy with, bone marrow histopathology and correlation with genetic status, 833  
for desmoid fibromatosis treatment, 325, 339
- Immunoassay. *See also* Enzyme-linked immunosorbent assay  
effects of Asian and Siberian ginseng on serum digoxin measurement by five digoxin, significant variation in digoxin-

- like immunoreactivity among commercial ginsengs, 298
- enzyme, in *Clostridium difficile*-associated diarrhea diagnosis, 45
- Immunocytochemistry, CD105 expression as marker of high metastatic risk and poor outcome in breast carcinomas, correlations between immunohistochemical analysis and long-term follow-up in a series of 929 patients, 374
- Immunofluorescence assay
- for detection of IgG and IgM to West Nile virus, development of an, 508
  - direct and indirect immunofluorescence as diagnostic adjunct in interpretation of nonneoplastic medical lung disease, 279
- Immunoglobulin A, in cerebrospinal fluid, immunonephelometric assays for quantitative determination of, performance characteristics of four, 689
- Immunoglobulin G, to West Nile virus, detection of, development of an immunofluorescence assay, 508
- Immunoglobulin heavy chain, IgH-polymerase chain reaction, in evaluation of B-cell lymphoma involvement in paraffin-embedded bone marrow biopsy specimens, 634
- Immunoglobulin M
- in cerebrospinal fluid, immunonephelometric assays for quantitative determination of, performance characteristics of four, 689
  - to West Nile virus, detection of, development of an immunofluorescence assay, 508
- Immunoglobulins, quantitative analysis of serum free light chains, a new marker for diagnostic evaluation of primary systemic amyloidosis, 274
- Immunohistochemistry
- angiogenesis-related markers in oral squamous cell carcinomas with multiple metastatic lymph nodes, 574
  - cathepsin D expression, in meningioma, 123
  - for CD5 and CD10 detection in B-cell lymphomas, 218
  - CD105 expression as marker of high metastatic risk and poor outcome in breast carcinomas, correlations between immunohistochemical analysis and long-term follow-up in a series of 929 patients, 374
  - c-Kit expression in desmoid fibromatosis, comparative immunohistochemical evaluation of two commercial antibodies, 325, 339
  - CXCR4/CD184 immunoreactivity in T-cell non-Hodgkin lymphomas with an overall Th1- Th2+ immunophenotype, 424
  - endoscopic ultrasound-guided fine-needle aspiration findings of gastrointestinal leiomyomas and gastrointestinal stromal tumors, 703
  - Helicobacter pylori* infiltration in the gastric mucosa detected by, 101
  - Hep Par 1 immunoreactivity in hepatic and extrahepatic tumors and its correlation with albumin in situ hybridization in hepatocellular carcinoma, 361
  - human monocytic ehrlichiosis, hepatic pathology in, 859
  - nodular lymphocyte predominant Hodgkin disease, an immunophenotypic reappraisal based on a single-institution experience, 192
  - p63 and thyroid transcription factor-1, as marker panel for distinguishing small cell carcinoma of lung from poorly differentiated squamous cell carcinoma of lung, 630, 696
  - vascular endothelial growth factor in bone marrow of patients with acute myeloid leukemia, detection of, correlation between VEGF expression and French-American-British category, 663
- Immunonephelometric assays, for quantitative determination of IgA and IgM in cerebrospinal fluid, performance characteristics of four, 689
- Immunophenotyping
- by flow cytometry
    - of anaplastic large cell lymphoma, 205
    - comparative analysis of light chain expression in germinal center cells and mantle cells of reactive lymphoid tissues, 130
    - for minimal residual disease detection in hairy cell leukemia, comparison with clonal analysis using consensus primer polymerase chain reaction for the heavy chain gene, 213
    - of nonhematopoietic neoplasms, 643  - nodular lymphocyte predominant Hodgkin disease, an immunophenotypic reappraisal based on a single-institution experience, 192
- Immunosuppressive drug therapy, effects of sterilizing gamma radiation on cyclosporine and tacrolimus measurements, 292
- Indirect immunofluorescent assay, as diagnostic adjunct in interpretation of nonneoplastic medical lung disease, 279
- Infectious diseases. *See also* Mold infection; West Nile virus
- anthrax, effects of sterilizing gamma radiation on bloodspot newborn screening tests and whole blood cyclosporine and tacrolimus measurements, 292
  - detected at autopsy at an urban public hospital, 1996-2001, 866
  - human monocytic ehrlichiosis, hepatic pathology in, 859
  - Yersinia pestis* and the plague, S78
- Inflammatory bowel disease, molecular discoveries altering view of, review from scientific, clinical, and laboratory perspectives, 524
- Inflammatory myofibroblastic tumor, familial peritoneal multifocal calcifying fibrous tumor resembling, 811
- Informatics
- comprehensive graphic-based display of clinical pathology laboratory data, 330
  - computer-based intervention for improving appropriateness of antiepileptic drug level monitoring, 432
- Information for Authors, 159
- Inhibin, alpha-subunit of, expression in granular cell tumors, 259
- In situ hybridization
- albumin, in hepatocellular carcinoma, Hep Par 1 immunoreactivity in hepatic and extrahepatic tumors and its correlation with, 361
  - fluorescence vs chromogenic, for detection of HER-2/*neu* in breast cancer, comparison of, 381
- International normalized ratio
- European Concerted Action on Anticoagulation lyophilized plasma samples for ISI calibration of CoaguChek and TAS point-of-care whole blood prothrombin time monitors, 232
  - international sensitivity index calibration of the near-patient ProTime prothrombin time monitor, 241
- International sensitivity index
- calibration of the near-patient ProTime prothrombin time monitor, 241
  - European Concerted Action on Anticoagulation lyophilized plasma samples for calibration of CoaguChek and TAS point-of-care whole blood prothrombin time monitors, 232
- Interobserver reproducibility, in assessing adequacy of the squamous component in conventional cervicovaginal smears, 367
- Intraductal papillary mucinous neoplasm, S6
- Ito cells, stellate-cell lipidosis, in liver biopsy specimens, recognition and significance, 254

**K**

- Kallikreins, steroid hormone regulation and prognostic value of human kallikrein gene 14 in ovarian cancer, 346
- Ki-67, apoptosis regulation differs between ulcerative colitis-associated and sporadic colonic tumors, association with, 723
- Kidneys, histopathologic spectrum of cryofibrinogenemia in, 114
- Kleihauer-Betke stain, for fetal-maternal hemorrhage detection, 72
- KLK 14* gene, steroid hormone regulation and prognostic value of, in ovarian cancer, 346

**L**

- Laboratory information systems, comprehensive graphic-based display of clinical pathology laboratory data, 330
- Lectin, dendritic cell-specific intercellular adhesion molecule-3 grabbing nonintegrin as marker of dendritic cells, 540
- Leiomyomas, gastrointestinal, endoscopic ultrasound-guided fine-needle aspiration findings of gastrointestinal stromal tumors and, 703
- Leukemia
  - acute myeloid
    - prognostic impact of classification of, importance of detecting cytogenetic abnormalities and multilineage dysplasia on survival, 672
    - vascular endothelial growth factor in bone marrow of patients with, immunohistochemical detection of, correlation between VEGF expression and French-American-British category, 663
  - acute promyelocytic, novel method for detection, quantitation, and breakpoint cluster region determination of t(15;17) fusion transcripts using a one-step real-time multiplex reverse transcriptase-polymerase chain reaction, 137
  - chronic lymphocytic, phenotypic heterogeneity of B cells in patients with chronic lymphocytic leukemia/small lymphocytic lymphoma, 824
  - chronic myeloid, following therapy with imatinib mesylate (Gleevec), bone marrow histopathology and correlation with genetic status, 833
  - hairy cell, minimal residual disease detection in, comparison of flow cytometric immunophenotyping with clonal analysis using consensus primer polymerase chain reaction for the heavy chain gene, 213
- Leukocyte differential count, elimination of instrument-driven reflex manual, optimization of manual blood smear review criteria in high-volume automated hematology laboratory, 656
- Light chain ratio, germinal center cells and mantle cells of reactive lymphoid tissues, comparative analysis of light chain expression in, a four-color flow cytometric study, 130
- LightCycler, comparison with Nanogen electronic microarray with restriction enzyme digestion, 490
- Lipidosis, stellate-cell, in liver biopsy specimens, recognition and significance of, 254
- Liver
  - hepatic coproporphyrin, S92
  - hepatic pathology in human monocytic ehrlichiosis, 859
  - hepatitis C virus, extrahepatic replication of, detection by novel, highly sensitive, single-tube nested polymerase chain reaction, 95
  - Hep Par 1 immunoreactivity in hepatic and extrahepatic tumors and its correlation with albumin in situ hybridization in hepatocellular carcinoma, 361

stellate-cell lipidosis, in biopsy specimens, recognition and significance, 254

synchronous occurrence of focal nodular hyperplasia and hepatocellular carcinoma in the same liver is not based on common chromosomal aberrations, 265

toxic effects of nucleoside reverse transcriptase inhibitors on, value of electron microscopy analysis for diagnosis of mitochondrial cytopathy, 546

Low-density lipoprotein cholesterol, comparison of LDL size by polyacrylamide tube gel electrophoresis vs polyacrylamide gradient gel electrophoresis, 439

Low-grade squamous intraepithelial lesions, and digital imaging in cervical smear diagnosis, 356

**Lungs**

adenocarcinoma of, screen-detected, practical points for surgical pathologists, S39

carcinoma of, p63 and thyroid transcription factor-1 as marker panel for distinguishing small cell carcinoma of lung from poorly differentiated squamous cell carcinoma of lung, 630, 696

cryofibrinogenemia in, histopathologic spectrum of, 114

idiopathic pulmonary fibrosis, microvascular injury in evolution of, 556

interstitial pneumonia, terminal diffuse alveolar damage in relation to, 709

nonneoplastic medical lung disease, direct and indirect immunofluorescence as diagnostic adjunct in interpretation of, 279

Lupus anticoagulant, in the second-generation assay for activated protein C resistance, effect of, 66

Lymph nodes, bcl-2 expression by multicolor flow cytometric analysis, assists in diagnosis of follicular lymphoma in bone marrow and, 145

Lymphoid neoplasms, recommendations for reporting of, 185

**Lymphoma**

anaplastic large cell

fascin expression in Hodgkin disease and, comparison of, 199

immunophenotypic analysis of, by flow cytometry, 205

B-cell

with coexpression of CD5 and CD10, 218

involvement in paraffin-embedded bone marrow biopsy specimens, IgH-polymerase chain reaction in evaluation of, 634

epidermotropic T-cell, bone marrow histopathologic and molecular staging in, 414

follicular

bcl-2 expression by multicolor flow cytometric analysis assists in diagnosis of, in lymph nodes and bone marrow, 145

HLA-DO, as useful marker to distinguish florid follicular hyperplasia from, by flow cytometry, 842

Hodgkin. *See* Hodgkin disease

lymphocytic, phenotypic heterogeneity of B cells in patients with chronic lymphocytic leukemia/small, 824

mucosa-associated lymphoid tissue, *Helicobacter pylori* associated with, 403

T-cell non-Hodgkin, with an overall Th1- Th2+ immunophenotype, CXCR4/CD184 immunoreactivity in, 424

Lymphomatoid papulosis, granulomatous eccrinotropic, 731

**M**

Mammotome, atypical ductal hyperplasia diagnosis by directional vacuum-assisted stereotactic biopsy of breast microcalcifications, 248

- Mantle cells, and germinal center cells of reactive lymphoid tissues, comparative analysis of light chain expression in, a four-color flow cytometric study, 130
- Mathematical modeling, for understanding prostate-specific antigen dynamics and other medical problems, 14, 80
- Medullary thyroid carcinoma, S24
- Melanoma, versican and mel-CSPG expression in, 587
- Mel-CSPG, expression in dysplastic nevi, 587
- Meningioma, immunohistochemical expression of cathepsin D in, 123
- Meningoencephalitis, and West Nile virus, a report of two cases and review of the literature, 749
- MIB-1, as prognostic marker for glioblastoma, 715
- Microarrays, diagnostic single nucleotide polymorphism analysis of factor V Leiden and prothrombin 2021G>A, comparison of Nanogen electronic microarray with restriction enzyme digestion and Roche LightCycler, 490
- Microcalcifications, breast, atypical ductal hyperplasia diagnosis by directional vacuum-assisted stereotactic biopsy of, 248
- Microscopy, electron, for diagnosis of mitochondrial cytopathy due to toxic effects of nucleoside reverse transcriptase inhibitors on the liver, value of, 546
- Microvascular injury, in evolution of idiopathic pulmonary fibrosis, 556
- Mitochondria, toxic effects of nucleoside reverse transcriptase inhibitors on the liver, value of electron microscopy analysis for diagnosis of mitochondrial cytopathy, 546
- Mold infection  
invasive, diagnosis of, polymerase chain reaction for, 11, 38  
invasive septate, diagnosis of, correlation of microbiological culture and histologic or cytologic examination, 854
- Molecular diagnostics, integration of therapeutics with, implications for drug development and pathology practice, 26
- Monoclonal antibodies, anticancer, 472
- Monoclonal light chains, quantitative analysis of serum free light chains, a new marker for diagnostic evaluation of primary systemic amyloidosis, 274
- Mouth, oral squamous cell carcinoma, immunohistochemical expression of angiogenesis-related markers in, with multiple metastatic lymph nodes, 574
- Mucinous cystic neoplasm, S4
- Mucosa, gastric, *Helicobacter pylori* infiltration in the, 101
- Mucosa-associated lymphoid tissue (MALT) lymphoma, *Helicobacter pylori* associated with, 403
- Multiple sclerosis, immunonephelometric assays for quantitative determination of IgA and IgM in cerebrospinal fluid in diagnosis of, 689
- Muscles, histopathologic spectrum of cryofibrinogenemia in, 114
- Mycosis fungoides, bone marrow histopathologic and molecular staging in epidermotropic T-cell lymphomas, 414
- Myelodysplastic syndromes, contemporary biologic concepts and emerging diagnostic approaches, S58
- Myelofibrosis, chronic idiopathic, evolution of myelofibrosis in, as evidenced by sequential bone marrow biopsies, 152
- Mylotarg (gemtuzumab), 472
- Myofibroblastic tumor, inflammatory, familial peritoneal multifocal calcifying fibrous tumor resembling, 811
- Myogenin, flow cytometric assays for identifying expression of, 643
- Myoid cells, and rhabdomyomatous multilocular thymic cysts, S78
- Myxofibrosarcomas, large numbers of infiltrating immature dendritic cells contained in, 540
- N**
- NanoChip, comparison with LightCycler, 490
- Needle biopsy  
core, atypical ductal hyperplasia diagnosis by directional vacuum-assisted stereotactic biopsy of breast microcalcifications, 248  
fine-needle aspiration biopsy, endoscopic ultrasound-guided, for distinguishing gastrointestinal leiomyomas from gastrointestinal stromal tumors, 703
- Neisseria gonorrhoeae*, detecting in urine using molecular amplification assays, 516
- Nephelometry, quantitative analysis of serum free light chains, a new marker for diagnostic evaluation of primary systemic amyloidosis, 274
- Nevi, dysplastic, expression of proteoglycans versican and mel-CSPG in, 587
- Newborn screening, effects of sterilizing gamma radiation on bloodspot samples for, 292
- News and Notices, 162, 450, 609, 923
- Nierhaus stain, for fetal-maternal hemorrhage detection, 72
- Nonhematopoietic neoplasms, lineage-specific identification by flow cytometry, 643
- Nucleoside reverse transcriptase inhibitors, toxic effects on liver of, value of electron microscopy analysis for diagnosis of mitochondrial cytopathy, 546
- Nucleotide-binding oligomerization domain 2, Crohn disease linked to, 524
- O**
- Organ transplantation. *See* Transplantation
- Ovarian carcinoma, steroid hormone regulation and prognostic value of human kallikrein gene 14 in, 346
- OX40/CD134, and CXCR4/CD184 immunoreactivity in T-cell non-Hodgkin lymphomas with an overall Th1- Th2+ immunophenotype, 424
- P**
- p63, and thyroid transcription factor-1, as marker panel for distinguishing small cell carcinoma of lung from poorly differentiated squamous cell carcinoma of lung, 630, 696
- Pancreas  
cystic neoplasms of the, S3  
protein kinase C isoenzyme expression patterns are characteristically modulated in chronic pancreatitis and pancreatic cancer, 392  
standard and molecular cytogenetics of endocrine tumors, S17
- Pancreatitis, chronic, protein kinase C isoenzyme expression patterns are characteristically modulated in pancreatic cancer and, 392
- Panorex (edrecolomab), 472
- Papanicolaou smear, interobserver variability in assessing adequacy of the squamous component in conventional cervicovaginal smears, 367
- Papillary thyroid carcinoma, S19
- Papulosis, granulomatous eccrinotropic lymphomatoid, 731
- Parathyroid gland, standard and molecular cytogenetics of endocrine tumors, S17
- Patient records, comprehensive graphic-based display of clinical pathology laboratory data, 330



- Peptic ulcer, and *Helicobacter pylori*, pathology and diagnostic strategies for, 403
- Peritoneum  
 familial peritoneal multifocal calcifying fibrous tumor, 811  
 involvement in stage II colon cancer, 108
- Personalized medicine, integration of molecular diagnostics with therapeutics, implications for drug development and pathology practice, 26
- Pharmacogenetics, integration of molecular diagnostics with therapeutics, implications for drug development and pathology practice, 26
- Pharmacogenomics, integration of molecular diagnostics with therapeutics, implications for drug development and pathology practice, 26
- Pheochromocytomas, S28
- Pituitary gland, standard and molecular cytogenetics of endocrine tumors, S17
- Plague, *Yersinia pestis* and the, S78
- Plasma, lyophilized, minimum numbers of samples for ISI calibration of CoaguChek and TAS point-of-care whole blood prothrombin time monitors, 232
- Platelet count, timing of positive test result for heparin-induced thrombocytopenia relative to anticoagulant therapy and, in 43 cases, 497
- Pneumonia  
 infectious diseases detected at autopsy, at an urban public hospital, 1996-2001, 866  
 interstitial, terminal diffuse alveolar damage in relation to, 709
- Pneumonic plague, *Yersinia pestis* and, S78
- Point-of-care testing, European Concerted Action on  
 Anticoagulation lyophilized plasma samples for ISI calibration of CoaguChek and TAS point-of-care whole blood prothrombin time monitors, 232
- Poliomyelitis, West Nile virus accompanied by syndrome like, 749
- Polymerase chain reaction  
 consensus primer, for the heavy chain gene, for minimal residual disease detection in hairy cell leukemia, comparison with flow cytometric immunophenotyping, 213  
 for epidermotropic T-cell lymphoma diagnosis, 414  
 immunoglobulin heavy chain, in evaluation of B-cell lymphoma involvement in paraffin-embedded bone marrow biopsy specimens, 634  
 for invasive mold infection diagnosis, 11, 38  
 nested, extrahepatic hepatitis C virus replication detection by novel, highly sensitive, single-tube, 95  
 reverse transcriptase, novel method for detection, quantitation, and breakpoint cluster region determination of t(15;17) fusion transcripts using a one-step real-time multiplex, 137
- Polyps, hyperplastic-like, as precursors of microsatellite-unstable colon adenocarcinomas, 773, 778
- Porphyria cutanea tarda, S91
- Porphyrias, a guide to, a historical and clinical perspective, S86
- Porphyrias, porphyrias and, S86
- Predisposition, integration of molecular diagnostics with therapeutics, implications for drug development and pathology practice, 26
- Progesterone, androgen, estrogen, and progesterone receptors in salivary gland tumors, expression of, frequent expression of androgen receptor in subset of malignant salivary gland tumors, 801
- Prognostic markers  
 CD105 expression as marker of high metastatic risk and poor outcome in breast carcinomas, correlations between immunohistochemical analysis and long-term follow-up in a series of 929 patients, 374
- MIB-1 and DNA topoisomerase II $\alpha$  for glioblastoma, 715
- steroid hormone regulation and prognostic value of human kallikrein gene 14 in ovarian carcinoma, 346
- Prostate cancer, tumor volume and prostate-specific antigen in, analysis from kinetic point of view, 14, 80
- Prostate-specific antigen, quantitative modeling for understanding dynamics of, 14, 80
- Prostate-specific membrane antigen, 472
- Protein kinase C, expression patterns of isoenzymes of, as characteristically modulated in chronic pancreatitis and pancreatic cancer, 392
- Proteoglycans, versican and mel-CSPG expression in dysplastic nevi, 587
- Prothrombin 2021G>A, diagnostic single nucleotide polymorphism analysis of factor V Leiden and, comparison of Nanogen electronic microarray with restriction enzyme digestion and Roche LightCycler, 490
- Prothrombin time  
 European Concerted Action on Anticoagulation lyophilized plasma samples for ISI calibration of CoaguChek and TAS point-of-care whole blood monitors, 232  
 international sensitivity index calibration of the near-patient ProTime monitor, 241
- Psammoma bodies, non-tumor-associated, in the thyroid, 90
- Public health, evaluation of urine specimen integrity in an STD screening program, 516
- ## Q
- Quality assurance  
 how many cases need to be reviewed to compare performance in surgical pathology, 388  
 surgical pathology of biopsy material, agreement and error rates using blinded review for evaluating, 797  
 telecytology of cervical smears, accuracy and reproducibility of, a tool for, 356  
 von Willebrand disease, laboratory diagnosis of, current practice in the southern hemisphere, 882
- Quantitative modeling, for understanding prostate-specific antigen dynamics and other medical problems, 14, 80
- ## R
- Realistic Pathologic Classification, prognostic impact of classification of acute myeloid leukemia, importance of detecting cytogenetic abnormalities and multilineage dysplasia on survival, 672
- Receptors, androgen, estrogen, and progesterone receptors in salivary gland tumors, expression of, frequent expression of androgen receptor in subset of malignant salivary gland tumors, 801
- Records, patient, comprehensive graphic-based display of clinical pathology laboratory data, 330
- Rejection, acute, as cause of death after heart transplantation, 740
- Reporting  
 American College of Surgeons Commission on Cancer requirements for pathologic reporting of cancer specimens, 629  
 comprehensive graphic-based display of clinical pathology laboratory data, 330  
 of lymphoid neoplasms, recommendations for, 185



- of studies of diagnostic accuracy, 18
- of tissues removed as part of surgical treatment of common malignancies of the eye and its adnexa, recommendations for, 179
- Restriction fragment length polymorphism, diagnostic single nucleotide polymorphism analysis of factor V Leiden and prothrombin 2021G>A, comparison of Nanogen electronic microarray with restriction enzyme digestion and Roche LightCycler, 490
- Retinoids, hepatic stellate-cell lipidosis due to use of synthetic, 254
- Rhabdomyomatous multilocular thymic cysts, 816
- Rituximab (Rituxan), 472
- Rosette technique, for fetal-maternal hemorrhage detection, 72

## S

- S-100 protein, expression in granular cell tumors, 259
- St Louis encephalitis, and West Nile virus, 508, 749
- Salivary glands, tumors of, androgen, estrogen, and progesterone receptor expression in, frequent expression of androgen receptor in subset of malignant, 801
- Scedosporium*, diagnosis of invasive septate mold infection, correlation of microbiological culture and histologic or cytologic examination, 854
- Schwann cells, granular cell tumors and, 259
- Screening
  - screen-detected adenocarcinoma of lungs, practical points for surgical pathologists, S39
  - sterilizing gamma radiation's effects on bloodspot newborn screening tests and whole blood cyclosporine and tacrolimus measurements, 292
  - urine specimen integrity in a public health STD screening program, 516
- Septate mold infection, diagnosis of invasive, correlation of microbiological culture and histologic or cytologic examination, 854
- Septicemic plague, *Yersinia pestis* and, S78
- Serous microcystic adenoma, S12
- Sex hormones, androgen, estrogen, and progesterone receptors in salivary gland tumors, expression of, frequent expression of androgen receptor in subset of malignant salivary gland tumors, 801
- Sexually transmitted diseases, evaluation of urine specimen integrity in a public health STD screening program, 516
- Sézary syndrome, bone marrow histopathologic and molecular staging in epidermotropic T-cell lymphomas, 414
- Single nucleotide polymorphism analysis, of factor V Leiden and prothrombin 2021G>A, comparison of Nanogen electronic microarray with restriction enzyme digestion and Roche LightCycler, 490
- Single-strand conformation polymorphism, and IgH-polymerase chain reaction, in evaluation of B-cell lymphoma involvement in paraffin-embedded bone marrow biopsy specimens, 634
- Skin. *See also* Skin cancer
  - histopathologic spectrum of cryofibrinogenemia in, 114
- Skin cancer, invasive cutaneous verruco-cystic squamous cell carcinoma, a pattern commonly present in transplant recipients, 807
- Solid pseudopapillary tumor, S10
- Specimens
  - effects of sterilizing gamma radiation on bloodspot newborn screening tests and whole blood cyclosporine and tacrolimus measurements, 292
  - evaluation of urine specimen integrity in a public health STD screening program, 516
- Squamous cellular, interobserver variability in assessing adequacy of the squamous component in conventional cervico-vaginal smears, 367
- Standards for Reporting of Diagnostic Accuracy (STARD) initiative, 18
- Stellate-cell lipidosis, in liver biopsy specimens, recognition and significance of, 254
- Stem cells
  - hematopoietic, myelodysplastic syndromes, S58
  - transplantation, quantitative analysis of serum free light chains, a new marker for diagnostic evaluation of primary systemic amyloidosis, 274
- Sterilization, effects of sterilizing gamma radiation on bloodspot newborn screening tests and whole blood cyclosporine and tacrolimus measurements, 292
- Steroid hormones, regulation and prognostic value of human kallikrein gene 14 in ovarian cancer, 346
- STI571. *See* Imatinib mesylate
- Stomach
  - Helicobacter pylori* infiltration in the gastric mucosa, 101
  - Helicobacter pylori* pathology and diagnostic strategies for, 403
- Stromal cell-derived factor 1, and CXCR4/CD184, 424
- Surgical pathology
  - of biopsy material, agreement and error rates using blinded review for evaluating, 797
  - clinicopathologic correlations in 646 consecutive surgical eye specimens, 1990-2000, 594
  - how many cases need to be reviewed to compare performance in, 388
  - recommendations for reporting of lymphoid neoplasms, 185
  - recommendations for reporting of tissues removed as part of surgical treatment of common malignancies of the eye and its adnexa, 179
- Survivin, apoptosis regulation differs between ulcerative colitis-associated and sporadic colonic tumors, association with, 723

## T

- Tacrolimus, effects of sterilizing gamma radiation on measurements of, 292
- TAS PT-NC whole blood point-of-care monitoring system, minimum numbers of lyophilized plasma samples for ISI calibration of CoaguChek and, 232
- Telecytology, in cervical smear diagnosis, accuracy and reproducibility of, a tool for quality assurance programs, 356
- Test utilization, computer-based intervention for improving appropriateness of antiepileptic drug level monitoring, 432
- Therapeutics. *See also* Drugs, therapeutic
  - integration of molecular diagnostics with, implications for drug development and pathology practice, 26
- Thrombocytopenia, heparin-induced
  - clinical significance of borderline titer in a negative enzyme-linked immunosorbent assay test for, 61
  - timing of positive test result for, relative to the platelet count and anticoagulant therapy in 43 cases, 497
- Thrombosis
  - diagnostic single nucleotide polymorphism analysis of factor V

- Leiden and prothrombin 2021G>A, comparison of Nanogen electronic microarray with restriction enzyme digestion and Roche LightCycler, 490
- timing of positive test result for heparin-induced thrombocytopenia relative to the platelet count and anticoagulant therapy in 43 cases, 497
- venous, activated protein C resistance assay detects thrombotic risk factors other than factor V Leiden, 52
- Thymus, rhabdomyomatous multilocular thymic cysts, 816
- Thyroid gland
- non-tumor-associated psammoma bodies in the, 90
  - standard and molecular cytogenetics of endocrine tumors, S17
- Thyroid transcription factor-1, and p63, as marker panel for distinguishing small cell carcinoma of lung from poorly differentiated squamous cell carcinoma of lung, 630, 696
- Tissue plasminogen activator reversal, cryoprecipitate used for, 874
- Tomography, high-resolution computed, screen-detected adenocarcinoma of lungs, practical points for surgical pathologists, S39
- Toxicogenomics, integration of molecular diagnostics with therapeutics, implications for drug development and pathology practice, 26
- Transfusion, cryoprecipitate in, patterns of use of, 874
- Transplantation
- heart, cause of death and sudden cardiac death after, an autopsy study, 740
  - solid organ
    - graft-vs-host disease after, 568
    - invasive cutaneous verruco-cystic squamous cell carcinoma, a pattern commonly present in transplant recipients, 807
- Trastuzumab (Herceptin), 472
- Triage immunoassay, in *Clostridium difficile*-associated diarrhea diagnosis, 45
- t(15;17) translocation, novel method for detection, quantitation, and breakpoint cluster region determination of t(15;17) fusion transcripts using a one-step real-time multiplex reverse transcriptase-polymerase chain reaction, 137
- Tumor markers
- expression of calretinin and alpha-subunit of inhibin in granular cell tumors, 259
  - p63 and thyroid transcription factor-1, as marker panel for distinguishing small cell carcinoma of lung from poorly differentiated squamous cell carcinoma of lung, 630, 696
  - steroid hormone regulation and prognostic value of human kallikrein gene 14 in ovarian cancer, 346
- Tumor volume, and prostate-specific antigen in prostate cancer, analysis from kinetic point of view, 14, 80
- Tyrosine kinase receptors, c-Kit expression in desmoid fibromatosis, comparative immunohistochemical evaluation of two commercial antibodies, 325, 339

## U

- Ulcer, peptic, *Helicobacter pylori*, pathology and diagnostic strategies for, 403
- Ultrasound, endoscopic, fine-needle aspiration guided by, gastrointestinal leiomyomas and gastrointestinal stromal tumors distinguished by, 703

- Urease, *Helicobacter pylori* associated with, 403
- Uremia, cryoprecipitate used to correct uremic bleeding, 874
- Urinalysis, evaluation of specimen integrity in a public health STD screening program, 516

## V

- Vaccines, for the plague, S83
- Vacuum-assisted stereotactic biopsy, directional, of breast microcalcifications, atypical ductal hyperplasia diagnosis by, 248
- Vampires, porphyria as explaining myth of, S86
- Variegate porphyria, S92
- Vascular endothelial growth factor, in bone marrow of patients with acute myeloid leukemia, immunohistochemical detection of, correlation between VEGF expression and French-American-British category, 663
- Vasculitis, histopathologic spectrum of cryofibrinogenemia, in four anatomic sites, 114
- Versican, expression in dysplastic nevi, S87
- Vitamin A, hepatic stellate-cell lipidosis due to hypervitaminosis A, 254
- von Willebrand disease, laboratory diagnosis of, current practice in the southern hemisphere, 882
- von Willebrand factor
- cryoprecipitate patterns of use, 874
  - von Willebrand disease, laboratory diagnosis of, current practice in the southern hemisphere, 882

## W

- Warfarin, cryoprecipitate used to reverse effects of, 874
- Werewolves, porphyria as explaining myth of, S86
- West Nile virus
- detection of IgG and IgM to, development of an immunofluorescence assay, 508
  - neuropathology of, a report of two cases and review of the literature, 749
- World Health Organization (WHO) classification of neoplastic diseases, prognostic impact of classification of acute myeloid leukemia, importance of detecting cytogenetic abnormalities and multilineage dysplasia on survival, 672

## X

- X-linked sideroblastic anemia, S90

## Y

- Yersinia pestis*, and the plague, S78

## Z

- Zenapax (daclizumab), 472
- Zevalin (ibritumomab), 472

